

ENGINEERING  
TOMORROW

*Danfoss*

50 and 60Hz Catalogue

# Danfoss **Light Commercial Refrigeration** Compressors B, U, L, P, X, S, HY Ranges

R134a | R404A | R507 | R600a | R290



[lightcommercialrefrigeration.danfoss.com](http://lightcommercialrefrigeration.danfoss.com)



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## The Green Cooling Ranges

The most extended range of compressors for sustainable refrigeration in terms of energy consumption reduction.

The advanced design of the Green Cooling Ranges allows efficiency improvement providing energy consumption reductions up to 45% compared to standard versions; consequently, lower CO<sub>2</sub> emissions to the atmosphere.

The Green Cooling Ranges comprise **High Efficiency, Natural Refrigerants and Variable Speed Compressors.**

The Green Cooling range improves the compressor COP between **20%** and **30%** in comparison with standard ranges.



## GREEN COOLING

The major environmental benefits are obtained combining the use of the R290 with the design criteria of high efficiency ranges.

These compressor models, in their more advanced version, can save up to 50% of energy when compared with standard efficiency series of R404A thanks to its high-efficiency mechanics, its advanced motor winding design and the optional running capacitor concept.

### High Efficiency Ranges

The High Efficiency models reduce energy consumption of commercial refrigeration appliances between 10% and 30% with respect to standard ranges. Most High-Efficiency models are equipped with electric motors, designed with the "optional run capacitor" concept, that is, the compressor can work with or without a running capacitor (CSR/CSIR), offering different levels of efficiency with the same compressor. The new U range offers the highest level of efficiency with propane in the market today.

### Natural Refrigerants

Natural refrigerants like propane (R290) and isobutane (R600a) are being gradually introduced in commercial appliances, not only due to the replacement of H-CFC's and HFC's refrigerants which have high impact on environment, but also because it is more efficient in terms of performance and applications' energy consumption.

Refrigerant propane has no direct contribution to global warming and its energy consumption is between 10% to 15% lower than a similar application with R404A. The R290 compressors offer a higher cooling capacity and COP allowing energy-saving consumption with smaller displacement.



# Compressor Ranges Main Characteristics

Compressor ranges - Main characteristics							
Range	Displacement (cm <sup>3</sup> )		Cooling capacity (W) *				Weight (max) (kg)
	min	max	LBP		HMBP		
	min	max	min	max	min	max	
Small L	2.2	3.1	30	67	-	-	4.20
B	2.2	6.5	54	200	186	423	6.00
HY	2.5	15.3	65	430	55	1300	1.20
U	4.5	14.2	235	680	325	1247	9.90
L	4.5	10.7	110	696	324	1682	11
P	12	18	190	968	1065	2080	13
X	16	23	400	1060	1655	3030	17
S	26	38	1018	2558	2489	5262	23

\*All refrigerants / Measured at ASHRAE rating condition 50 Hz

## Labels and Approvals

For U, L, P, X, S



Compressor code and model

Voltage

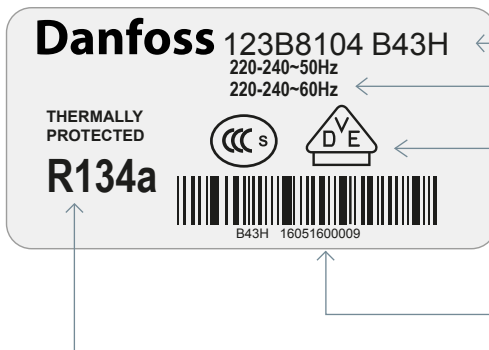
Approvals

Production Date

Bar Code

Refrigerant

For Small L & B



Compressor code and model

Voltage

Approvals

Bar Code

Refrigerant

Approvals



Directive compliance declarations



Flammable gases



# Compressor Nomenclature U, L, P, X and S Ranges

model  
**G L Y 6 0 R A a**

Indicates refrigerant.

**G** = R134a                      **N** = R290  
**M** = R404A/R507              **H** = R600a

Indicates compressor range (overall design).

**L** = 4.5 - 11cm<sup>3</sup>                      **X** = 16 - 23cm<sup>3</sup>  
**U** = 5.5 - 9cm<sup>3</sup>                      **P** = 12 - 18cm<sup>3</sup>                      **S** = 18 - 34cm<sup>3</sup>

Indicates energy efficiency level. Not appearing in case of Standard efficiency.

**M** = Medium  
**Y** = High Efficiency - Run Capacitor Optional RSIR/RSCR or CSIR/CSR  
**T** = Top Efficiency - Run Capacitor RSCR or CSR

Indicates approximate compressor displacement under the following rule:

**U / L ranges**                      10 times the approx. displacement in cm<sup>3</sup>/rev (GL90TB -> approx 9 cm<sup>3</sup>/rev)  
**P / X / S ranges**                      The approx. displacement in cm<sup>3</sup>/rev (MX21TG -> approx 21 cm<sup>3</sup>/rev)

Indicates the starting torque, application type and compressor cooling:

**A** = LBP - LST - S                      **L** = LBP - HST - Fan (Current Relay)                      **R** = HMBP - HST - FAN  
**C** = LBP - LST - FAN                      **M** = HMBP - LST/HST - S/FAN                      (CSR versions with Current Relay)  
**D** = LBP - HST - S                      **N** = LMBP - LST/HST - S/FAN                      **T** = HMBP - HST - FAN  
**F** = LBP - HST - FAN                      **P** = HMBP - LST - FAN                      (CSR versions with Potential Relay)

Indicates the rated voltage:

**A** = 220-240V 50Hz                      **G** = 200-220V 50Hz / 220-230V 60Hz  
**B** = 220-240V 50Hz (standard efficiency)                      **J** = 100V 50/60Hz  
**C** = 100V 50/60Hz (standard efficiency)                      **N** = 200-220V 50Hz or 200-240V 50Hz / 220-230V 60Hz  
**D** = 115V 60Hz                      **R** = 115-127V 60Hz  
**E** = 115V 60Hz (standard efficiency)                      **3** = 3 phase 400-440V 50/60Hz  
**F** = 208-230V 60Hz

Indicates a variant of the model that only affects the configuration of electrical components. Its meaning may vary from model to model. It does not appear on the compressor label but it is used for ordering, invoicing and HCB internal processes.

Examples:

1. In high-efficiency compressors ("Y" series, i.e.: GPY12LA or MLY80RD), the letters "a" or "b" may indicate the type of electrical connection corresponding to the electrical accessories supplied with the compressor.

**a** = no use of running capacitor  
**b** = use of running capacitor

2. In X range it indicates the electrical accessories corresponding to the following situations:

**a** = Current relay + NTC  
(no external connecting box)

# Compressor Nomenclature Small L & B Ranges

model

**B 35 C 5 B**

**B 35 C 5 B**

**Range:**

L --> Small L range

B --> B range

**Displacement x10:**

22 - 2.2cc

25 - 2.5cc

30 - 3.0cc

**Refrigerant & application:**

H = R134a LBP

G = R134a HBP

C = R600a LBP

M = R600a HBP

**Voltage & Frequency:**

Blank = 220-240V 50Hz and 220-240V 60 Hz

0 = 100V 50/60Hz

5 = 115V 60Hz

7 = 127V 60Hz

**Efficiency level:**

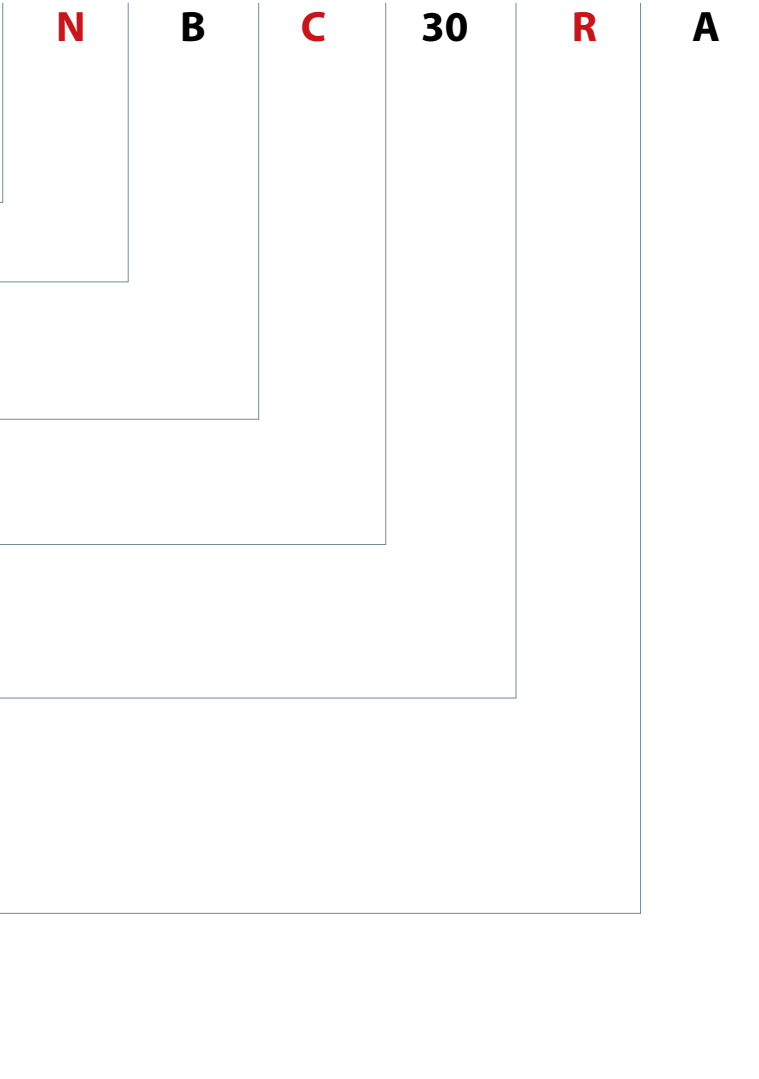
Blank = Standard Efficiency

B = High Efficiency

A = Very High Efficiency

S = Top efficiency

# Compressor Nomenclature B Ranges - R290



**R290 Models**

**Range:**

L --> Small L range

B --> B range

C --> Without Running Capacitor

G --> With Running Capacitor

**Displacement x10:**

22 - 2.2cc

25 - 2.5cc

30 - 3.0cc

**Refrigerant & application:**

For R290 (Propane) Models:

C = LBP - LST - Static

N = LMBP - HST - Static / Fan

R = HMBP - HST - Fan

**Voltage & Frequency:**

A = 220-240V 50Hz

R = 115-127V 60Hz



# Compressor Nomenclature HY Ranges - R134a & R600a

model

**HY E 55 Y G U 63 a**

**HY E 55 Y G U 63 a**

## Huayi models

### Range :

E --> 4.5 – 12.3 cm<sup>3</sup>  
J --> 3.0 – 6.9 cm<sup>3</sup>  
B --> 2.5 – 9.6 cm<sup>3</sup>  
S --> 4.5 – 12.5 cm<sup>3</sup>  
blank --> 6.9 – 15.3 cm<sup>3</sup>

### Displacement :

10 times the approx. displacement in cm<sup>3</sup>/rev  
(55 -> approx. 5.5 cm<sup>3</sup>/rev)

### Refrigerant:

Y = R134a  
M = R600a

### Energy efficiency level.

Blank = Less than 1.30 W/W  
Efficiency level H < G < K < T < S < X < D

### Configuration:

U = Concave-shaped valve plate, used only in R600a products.  
J = The mini-products of extended range of HYB which are smaller than 5.0 cc in displacement, if the cop is below than 1.3, the letter J may be omitted.

### Voltage & Frequency:

Blank = 220-240V 50Hz  
62 = 220-240V 60Hz  
42 = 115V 60Hz  
63 = 220-240V 50-60Hz  
72 = 115-127V 60Hz  
81 = 160-260V 50Hz  
83 = 160-260V 50Hz / 220-240V 60Hz

### winding material:

Blank = copper  
a = aluminium

# Voltage

The standards consider the voltage variation of the network to be within +/- 6% of its rated value, nevertheless the motors' design is able to work within -15% of the lowest rating and +10% of the highest rating.

Compressor Voltage Versions for L, P, U, X, S Ranges		
Voltage version	Compressor rating	Voltage operative range
<b>A or B</b>	220-240 V 50 Hz	187-264 V 50 Hz
<b>C or J</b>	100 V 50/60 Hz	85-110 V 50/60 Hz
<b>D or E</b>	115 V 60 Hz	98-127 V 60 Hz
<b>G or F</b> <b>L or N</b>	200- 220/220-230 V 50/60 Hz	170-242/187-253 V 50/60 Hz
<b>M or R</b>	115-127V 60Hz	98-140V 60Hz
<b>T</b>	200-220V 50Hz	187-242V 50Hz
<b>U</b>	208-230V 60Hz	177-253V 60Hz
<b>3</b>	400/440 V 50/60 Hz 3ph	340-440/374-484 V 50/60 Hz

# Applications

Based on the characteristics of the system for which the compressor is intended, compressors are classified in different groups of application.

## Low Back Pressure (LBP) Compressors

Evaporating temperature range for U, L, P, X and S range:  
-35°C to -10°C [-31°F to -14°F] (down to -40°C [-40°F] for refrigerant R404A and R290).

Evaporating temperature range for Small L and B range  
-35°C to -15°C [-31°F to -26°F]

Rating Condition  
-25°C [-13°F] (CECOMAF) or -23.3°C [-10°F] (ASHRAE)

## Low-Medium Back Pressure (LMBP) Compressors

Evaporating temperature range:  
-35°C to 0°C [-31°F to +32°F] (down to -40°C [-40°F] for refrigerant R404A and R290).

Rating Condition  
-25°C [-13°F] (CECOMAF) or -23.3°C [-10°F] (ASHRAE)

## High Medium Back Pressure (HMBP) Compressors

Evaporating temperature range:  
-25°C to +10°C [-13°F to +50°F]

Rating Condition  
+5°C [+41°F] (CECOMAF) or +7.2°C [+45°F] (ASHRAE)

## High Back Pressure (HBP) Compressors

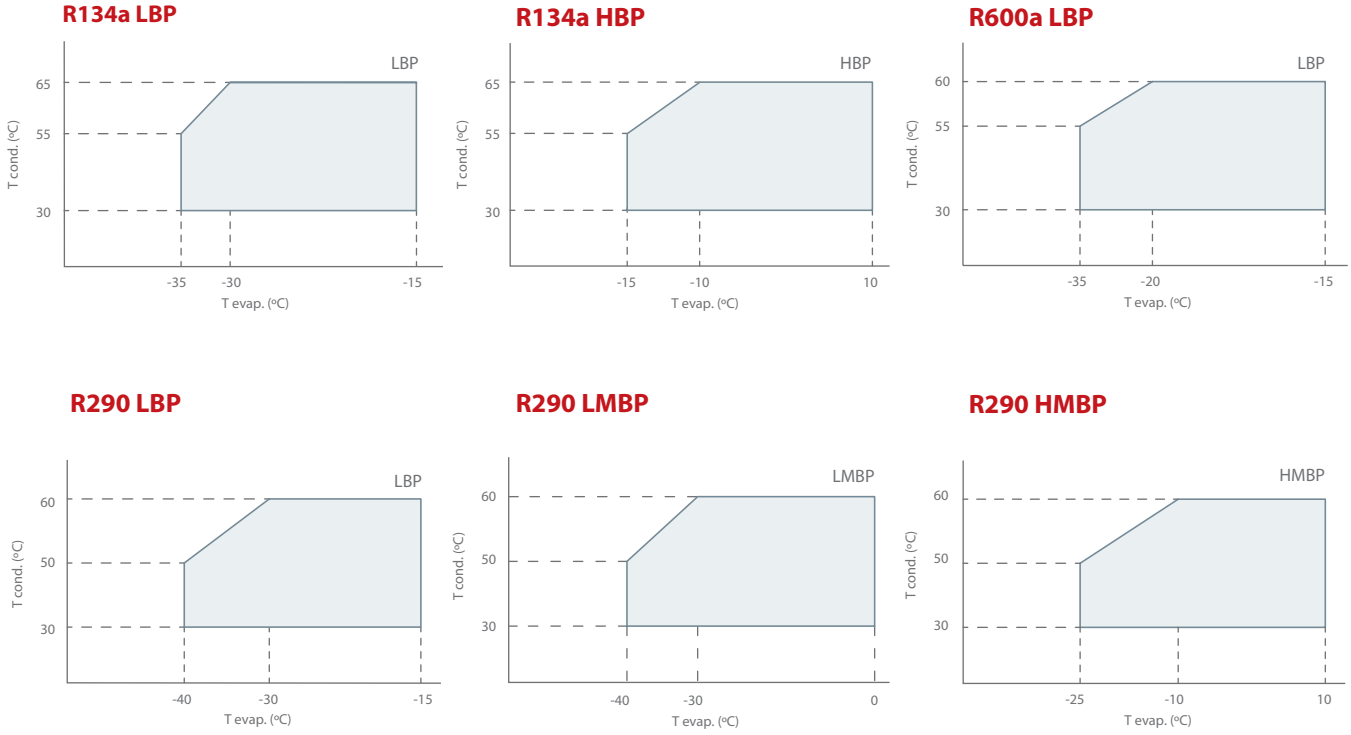
Evaporating temperature range:  
-15°C to +10°C [+5°F to +50°F]

Rating Condition  
+5°C [+41°F] (CECOMAF) or +7.2°C [+45°F] (ASHRAE)

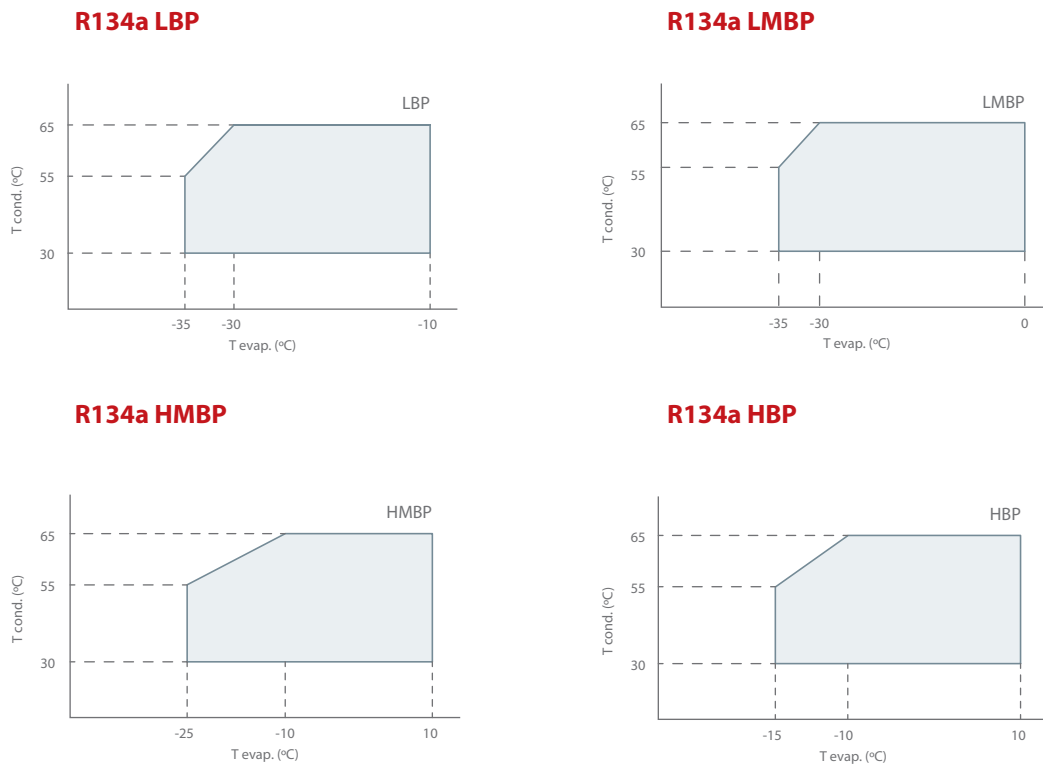
# Operating Envelope

In order to grant the compressor reliability it is recommended that the point representing the operating conditions (suction and discharge pressures) falls within the shadowed area of the corresponding graph.

For Small L and B ranges:

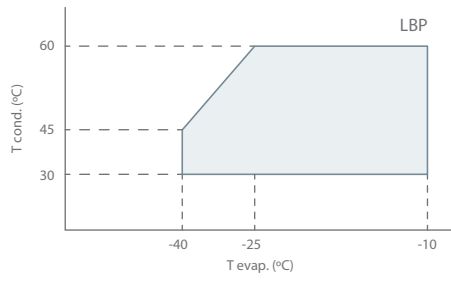


For U, L, P, X and S ranges:

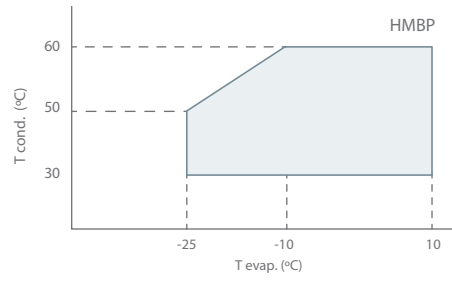


# Danfoss Light Commercial Refrigeration Compressors

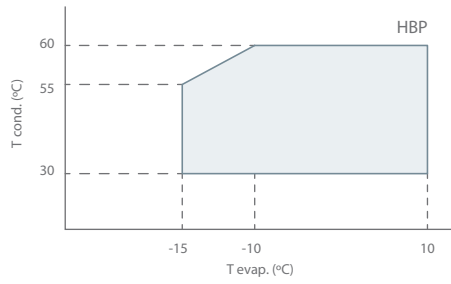
### R404A LBP



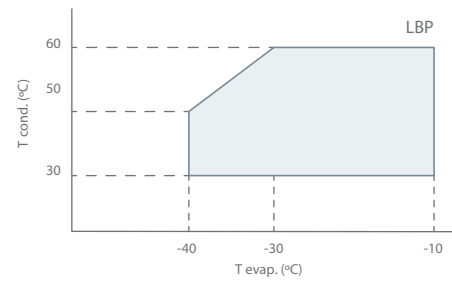
### R404A HMBP



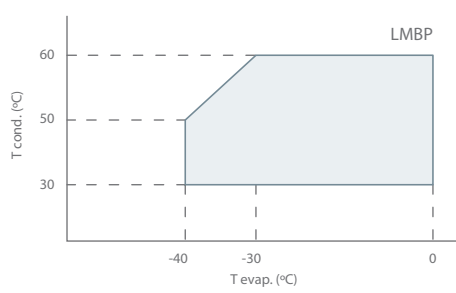
### R404A HBP



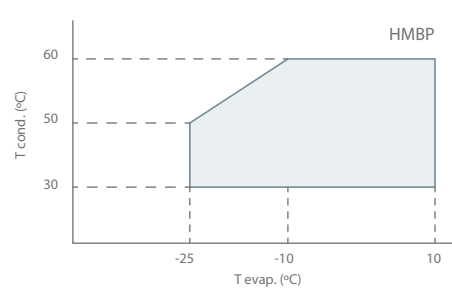
### R290 LBP



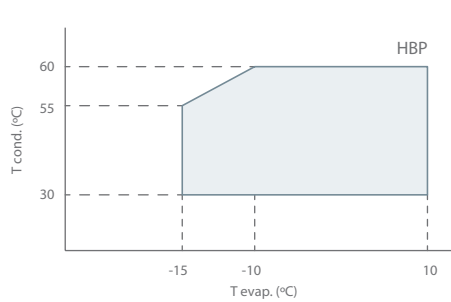
### R290 LMBP



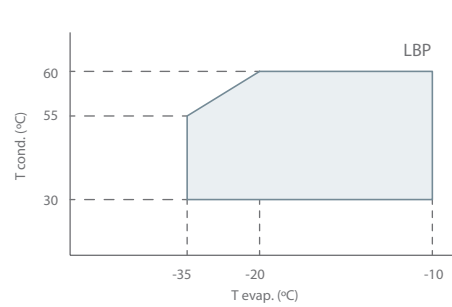
### R290 HMBP



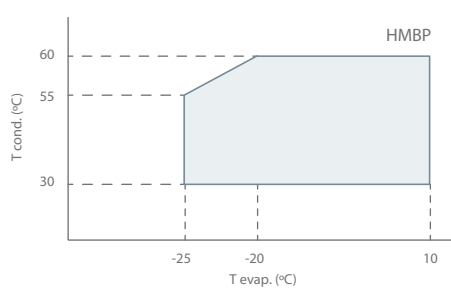
### R290 HBP



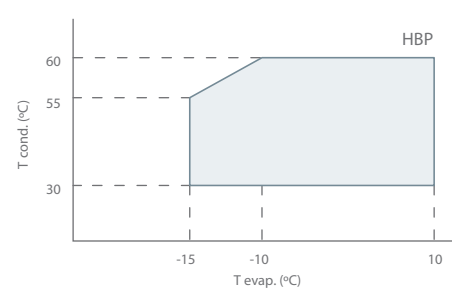
### R600a LBP



### R600a HMBP



### R600a HBP





## Types of Electrical Motors

### RSIR (Resistance Start-Induction Run)

LST motor. No capacitors. Auxiliary winding is disconnected after start up. Standard energy efficiency.

### CSIR (Capacitor Start-Induction Run)

HST motor. With starting capacitor. Auxiliary winding is disconnected after start up. Standard efficiency.

### RSCR (Resistance Start-Capacitor Run)

LST motor. With running capacitor. Auxiliary winding remains connected after start up. Used for high efficiency in small capacity compressors (particularly in household refrigeration)

### CSR (Capacitor Start and Run)

HST motor. Two capacitors (starting and running). Auxiliary winding remains connected after start up. Used for high efficiency in small compressors and for size reduced size motors in compressors with comparatively large displacements.

Single phase motor classification				
Capacitor type	HST With starting capacitor		LST Without starting capacitor	
With Running capacitor	Motor type: CSIR	Starting device: Current relay + NTC for L, P and X ranges Potential relay for P, X & S ranges	Motor type: RSCR	Starting device: PTC
Without Running capacitor	Motor type: CSIR	Starting device: Current Relay	Motor type: RSIR	Starting device: Current Relay or PTC

### Type of starting device

**Current relay** – (electromechanical). RSIR/CSIR motors and CSR low/medium-power motors with NTC (the NTC is connected in series with the starting capacitor and the main purpose is to reduce the current peaks in the relay contacts)

**Potential relay** – (electromechanical). CSR high-power motors.

**PTC** – (Positive Temperature Coefficient), the resistance increases with the temperature. Device only with RSIR or RSCR motors in the (Small L, B), L and P ranges.

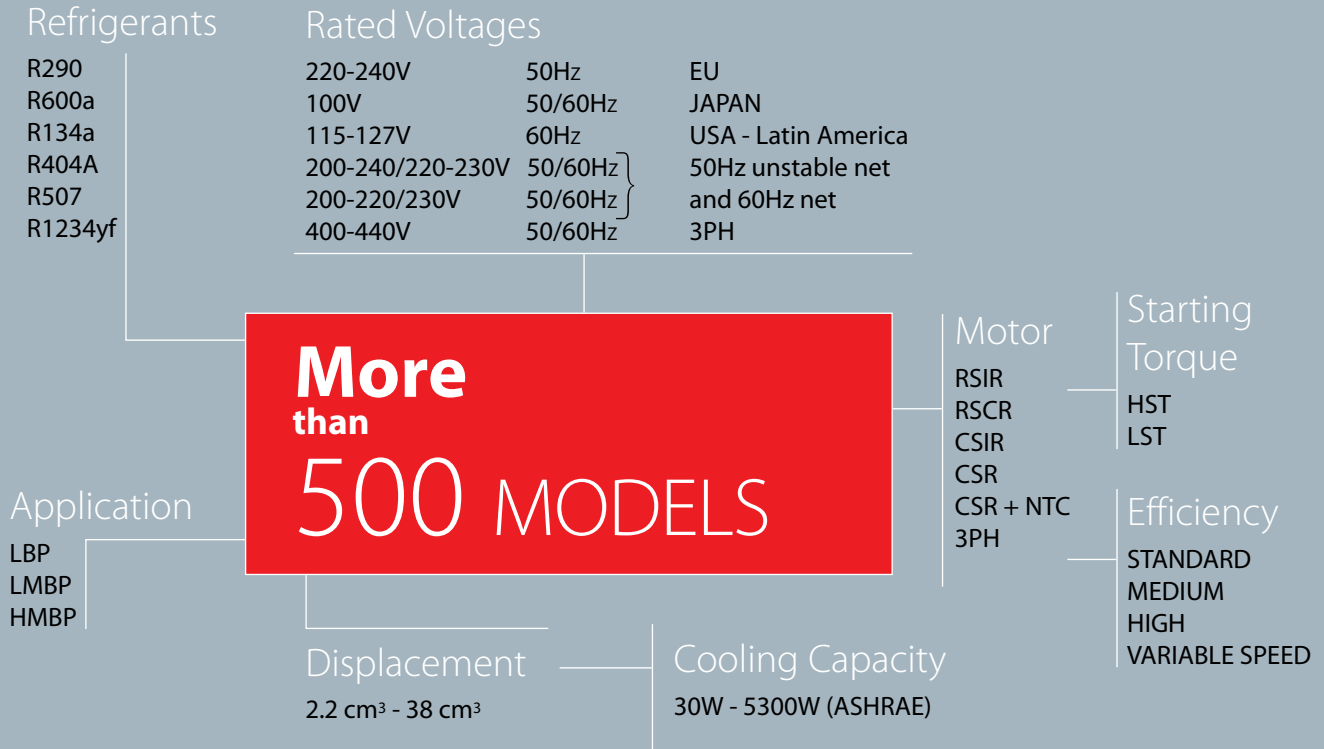
**NTC** – (Negative Temperature Coefficient), the resistance decreases with the temperature. Used in some CSR in order to reduce dimensions and components.

### Type of torque

**LST** – Low Starting Torque – Systems with capillary tube or balanced pressures at start up.

















**HST** – High Starting Torque – Systems with expansion valve or capillary tube, with unbalanced pressures at start up.

# Compressor Summary



# How to read this Catalogue

## Compressors

MODEL	DANFOSS CODE (†)	DISPLACEMENT cm <sup>3</sup>	POWER hp	APPLICATION	CPR COOLING	VOLTAGE FREQUENCY	MOTOR	STARTING	EXPANSION	REFRIGERATION CAPACITY								WEIGHT Kg	DESIGN
										COP in W/W Evaporating Temperature °C									
										CECOMAF (W)				ASHRAE					
										-25	-15	5		10	7.2				
												W	COP		W	COP			
R404A • R507	HMBP   HBP	50 Hz																	
ML40TB	123B2501	4.05	1/6	HMBP	F	220-240V 50Hz	CSIR	R	C-V	132	212	<b>470</b>	<b>1.41</b>	555	<b>590</b>	<b>1.74</b>	9.47	Lc	
ML40TG	123B2502	4.05	1/6	HMBP	F	200-240/220-230V 50/60Hz	CSIR	R	C-V	132	212	<b>470</b>	<b>1.41</b>	555	<b>590</b>	<b>1.74</b>	9.12	Lc	
ML45TB	123B2503	4.56	1/5	HMBP	F	220-240V 50Hz	CSIR	R	C-V	150	237	<b>525</b>	<b>1.47</b>	621	<b>660</b>	<b>1.82</b>	9.10	Lc	
ML45TG	123B2504	4.56	1/5	HMBP	F	200-240/220-230V 50/60Hz	CSIR	R	C-V	150	237	<b>525</b>	<b>1.47</b>	621	<b>660</b>	<b>1.82</b>	10.57	Lc	
 MLT45RG	123B2546	4.56	1/5	HMBP	F	200-240/220-230V 50/60Hz	CSR	R	C-V	169	268	<b>594</b>	<b>1.88</b>	702	<b>747</b>	<b>2.33</b>	10.60	Ld	
ML60TB	123B2507	5.68	1/4	HMBP	F	220-240V 50Hz	CSIR	R	C-V	165	276	<b>643</b>	<b>1.50</b>	765	<b>810</b>	<b>1.85</b>	9.29	Lc	
ML60TG	123B2508	5.68	1/4	HMBP	F	200-220/230V 50/60Hz	CSIR	R	C-V	165	276	<b>643</b>	<b>1.50</b>	765	<b>810</b>	<b>1.85</b>	10.57	Lc	
 MLY60RAa	123B2505	5.98	1/4	HMBP	F	220-240V 50Hz	CSIR	R	C-V	210	344	<b>761</b>	<b>1.74</b>	896	<b>955</b>	<b>2.15</b>	10.49	Lc	
 MLY60RAb	123B2506	5.98	1/4	HMBP	F	220-240V 50Hz	CSR	R	C-V	210	344	<b>761</b>	<b>1.91</b>	896	<b>955</b>	<b>2.36</b>	10.59	Lc	
 MLY60RGa	123B2550	5.98		HMBP	F	200-220/220-230V 50/60Hz	CSIR	R	C-V	215	341	<b>765</b>	<b>1.85</b>	907	<b>963</b>	<b>2.29</b>	10.24	Lc	
 MLY60RGb	123B2551	5.98		HMBP	F	200-220/220-230V 50/60Hz	CSR	R	C-V	216	352	<b>778</b>	<b>2.00</b>	916	<b>976</b>	<b>2.48</b>	10.34	Lc	
ML80TB	123B2511	7.57	3/8	HMBP	F	220-240V 50Hz	CSIR	R	C-V	225	383	<b>875</b>	<b>1.61</b>	1034	<b>1100</b>	<b>1.99</b>	9.68	Ld	
ML80TG	123B2512	7.57	3/8	HMBP	F	200-240/220-230V 50/60Hz	CSIR	R	C-V	225	383	<b>875</b>	<b>1.61</b>	1034	<b>1100</b>	<b>1.99</b>	11.81	Ld	
 MLY80RAa	123B2509	8.10	3/8	HMBP	F	220-240V 50Hz	CSIR	R	C-V	280	461	<b>1049</b>	<b>1.84</b>	1243	<b>1319</b>	<b>2.27</b>	11.29	Ld	
 MLY80RAb	123B2510	8.10	3/8	HMBP	F	220-240V 50Hz	CSR	R	C-V	280	461	<b>1049</b>	<b>1.99</b>	1243	<b>1319</b>	<b>2.46</b>	11.39	Ld	
ML90TB	123B2515	8.85	3/8	HMBP	F	220-240V 50Hz	CSIR	R	C-V	280	461	<b>1049</b>	<b>1.61</b>	1243	<b>1319</b>	<b>1.98</b>	12.31	Ld	
ML90TG	123B2516	8.85	3/8	HMBP	F	200-220/230V 50/60Hz	CSIR	R	C-V	280	461	<b>1049</b>	<b>1.61</b>	1243	<b>1319</b>	<b>1.98</b>	11.29	Ld	
 MLY90RAa	123B2513	9.09	3/8	HMBP	F	220-240V 50Hz	CSIR	R	C-V	316	509	<b>1125</b>	<b>1.73</b>	1327	<b>1412</b>	<b>2.13</b>	11.34	Ld	
 MLY90RAb	123B2514	9.09	3/8	HMBP	F	220-240V 50Hz	CSR	R	C-V	316	508	<b>1129</b>	<b>1.89</b>	1333	<b>1418</b>	<b>2.34</b>	11.44	Ld	
 MLT12RA	123B2540	10.70	3/8	HMBP	F	220-240V 50Hz	CSR	R	C-V	396	632	<b>1379</b>	<b>1.88</b>	1622	<b>1729</b>	<b>2.31</b>	11.59	Ld	
 MLT12RG	123B2532	10.70	3/8	HMBP	F	200-240/220-230V 50/60Hz	CSR	R	C-V	365	601	<b>1337</b>	<b>1.83</b>	1576	<b>1678</b>	<b>2.26</b>	12.24	Ld	
 MPT12RA	123B2518	12.10	3/8	HMBP	F	220-240V 50Hz	CSR	R	C-V	437	723	<b>1559</b>	<b>1.91</b>	1823	<b>1950</b>	<b>2.35</b>	12.20	Pd	
 MPT12RG	123B2703	12.10	3/8	HBP	F	200-240/220-230V 50/60Hz	CSR	R	C-V	-	689	<b>1489</b>	<b>1.87</b>	1769	<b>1875</b>	<b>2.33</b>	12.89	Pd	
 MPT14RA	123B2704	14.32	1/2	HBP	F	220-240V 50Hz	CSR	R	C-V	-	789	<b>1750</b>	<b>1.78</b>	2068	<b>2199</b>	<b>2.20</b>	12.25	Pd	
MX16TBa	123B2706	16.03	7/8	HMBP	F	220-240V 50Hz	CSR	R	C-V	481	814	<b>1868</b>	<b>1.74</b>	2212	<b>2350</b>	<b>2.15</b>	16.33	Xd	
MX18TBa	123B2707	18.40	7/8	HMBP	F	220-240V 50Hz	CSR	R	C-V	551	932	<b>2143</b>	<b>1.76</b>	2540	<b>2697</b>	<b>2.18</b>	16.33	Xd	
 MX18TGa	123B2541	18.40	7/8	HMBP	F	200-240/220-230V 50/60Hz	CSR	R	C-V	551	932	<b>2143</b>	<b>1.76</b>	2540	<b>2697</b>	<b>2.18</b>	16.24	Xd	
MX21TBa	123B2708	20.72	1	HMBP	F	220-240V 50Hz	CSR	R	C-V	620	1046	<b>2410</b>	<b>1.74</b>	2856	<b>3032</b>	<b>2.15</b>	16.52	Xd	
MX21TGa	123B2714	20.72	1	HMBP	F	200-220/230V 50/60Hz	CSR	R	C-V	621	1047	<b>2409</b>	<b>1.74</b>	2857	<b>3032</b>	<b>2.15</b>	17.16	Xd	
 MS22TB	123B2521	21.75	1	HMBP	F	220-240V 50Hz	CSR	R	C-V	451	967	<b>2550</b>	<b>2.02</b>	3060	<b>3228</b>	<b>2.50</b>	20.51	Sc	
MS26TB	123B2523	25.93	1 3/8	HMBP	F	220-240V 50Hz	CSR	R	C-V	671	1288	<b>3164</b>	<b>2.00</b>	3767	<b>3991</b>	<b>2.46</b>	22.12	Sd	
MS26TG	123B2524	25.93	1 3/8	HMBP	F	200-220/230V 50/60Hz	CSR	R	C-V	671	1289	<b>3166</b>	<b>2.00</b>	3769	<b>3993</b>	<b>2.46</b>	23.00	Sd	
MS34TB	123B2710	34.42	1 5/8	HBP	F	220-240V 50Hz	CSR	R	C-V	-	1850	<b>4205</b>	<b>1.89</b>	4930	<b>5266</b>	<b>2.30</b>	22.21	Sd	
MS34TG	123B2711	34.42	1 5/8	HBP	F	200-220/230V 50/60Hz	CSR	R	C-V	-	1850	<b>4205</b>	<b>1.89</b>	4930	<b>5266</b>	<b>2.30</b>	22.78	Sd	
MS18T3	123B2520	18.10	7/8	HMBP	F	400/440V 50/60Hz	3PHASE	P	C-V	421	834	<b>2124</b>	<b>1.89</b>	2543	<b>2685</b>	<b>2.35</b>	20.00	Sb	

Indicates Green Cooling models

Indicates New models

**R134a**





# Danfoss Light Commercial Refrigeration Compressors

## R134a (\*) LBP • 50 Hz

MODEL	DANFOSS CODE (#)	DISPLACEMENT cm <sup>3</sup>	POWER hp	APPLICATION	CPR COOLING	VOLTAGE FREQUENCY	MOTOR	STARTING	EXPANSION	REFRIGERATION CAPACITY						WEIGHT Kg	DESIGN	
										COP in W/W Evaporating Temperature °C								
										CECOMAF (W)			ASHRAE					
										-35	-30	-25	-10	-23.3				
		W	COP		W	COP												
L22HL	123B8101	2.20	1/20	LBP	S	220-240V 50Hz	RSIR	P	C	16	24	<b>34</b>	<b>0.63</b>	75	<b>47</b>	<b>0.82</b>	3.70	Lb
▲ HYB25YJ63a	125B1237	2.50	1/12	LBP	S	220-240V 50/60Hz	RSIR	P	C	20	33	<b>47</b>	<b>0.73</b>	101	<b>65</b>	<b>0.95</b>	4.26	HYBb
▲ HYB30YJ63a	125B1230	3.00	1/12	LBP	S	220-240V 50/60Hz	RSIR	P	C	33	46	<b>57</b>	<b>0.73</b>	132	<b>78</b>	<b>0.95</b>	4.26	HYBb
L30HL	123B8102	3.10	1/12	LBP	S	220-240V 50/60Hz	RSIR	P	C	23	35	<b>49</b>	<b>0.69</b>	108	<b>67</b>	<b>0.90</b>	4.20	Lc
▲ HYB35YJ63a	125B1238	3.50	1/10	LBP	S	220-240V 50/60Hz	RSIR	P	C	37	52	<b>66</b>	<b>0.73</b>	146	<b>90</b>	<b>0.95</b>	4.62	HYBc
B38H	123B8103	3.80	1/12	LBP	S/F	220-240V 50Hz	RSIR	P	C	30	45	<b>63</b>	<b>0.73</b>	139	<b>86</b>	<b>0.95</b>	4.60	Bc
▲ HYB41YK63a	125B1239	4.10	1/8	LBP	S	220-240V 50/60Hz	RSCR	P	C	39	57	<b>80</b>	<b>1.11</b>	177	<b>110</b>	<b>1.40</b>	6.30	HYBf
B43H	123B8104	4.30	1/10	LBP	S/F	220-240V 50/60Hz	RSIR	P	C	34	50	<b>71</b>	<b>0.77</b>	156	<b>97</b>	<b>1.00</b>	5.40	Bd
B43HB	123B8105	4.30	1/10	LBP	S	220-240V 50Hz	RSCR	P	C	35	51	<b>72</b>	<b>0.92</b>	158	<b>98</b>	<b>1.20</b>	5.00	Bd
▲ HYS45YH81a	125B1235	4.50	1/8	LBP	S	220-240V 50Hz	RSIR	P	C	44	61	<b>91</b>	<b>1.00</b>	196	<b>125</b>	<b>1.30</b>	7.10	HYSd
B48H	123B8106	4.80	1/8	LBP	S	220-240V 50Hz	RSIR	P	C	38	56	<b>79</b>	<b>0.81</b>	174	<b>108</b>	<b>1.05</b>	5.00	Bc
▲ HYS55YCA	125B1244	5.50	1/6	LBP	S	220-240V/50Hz	RSIR	P	C	60	84	<b>117</b>	<b>1.04</b>	246	<b>160</b>	<b>1.35</b>	7.00	HYSe
▲ HYE55YL63	125B1231	5.50	1/6	LBP	S	220-240V 50/60Hz	RSCR	P	C	59	83	<b>116</b>	<b>0.86</b>	243	<b>155</b>	<b>1.15</b>	7.90	HYEf
▲ HYE60YL63	125B1232	6.00	1/6	LBP	S	220-240V 50/60Hz	RSIR	P	C	68	94	<b>130</b>	<b>0.86</b>	263	<b>174</b>	<b>1.10</b>	8.30	HYEf
▲ HYS60YCA	125B1245	6.00	1/6	LBP	S	220-240V 50Hz	RSIR	P	C	66	91	<b>128</b>	<b>1.04</b>	258	<b>175</b>	<b>1.35</b>	7.40	HYSe
▲ HYE69YL63	125B1233	6.70	1/6	LBP	S	220-240V 50/60Hz	RSIR	P	C	78	108	<b>141</b>	<b>0.99</b>	301	<b>190</b>	<b>1.15</b>	8.30	HYEd
▲ HYE69YL	125B1243	6.70	1/5	LBP	S	220-240V/50Hz	RSIR	P	C	78	108	<b>141</b>	<b>0.94</b>	301	<b>190</b>	<b>1.20</b>	8.50	HYEb
▲ HYS69YCA	125B1246	6.70	1/5	LBP	S	220-240V/50Hz	RSIR	P	C	79	110	<b>142</b>	<b>1.04</b>	303	<b>195</b>	<b>1.35</b>	7.40	HYSd
▲ HYE81Ya	125B1227	8.10	1/4	LBP	F	220-240V/50Hz	RSIR	P	C	113	158	<b>175</b>	<b>1.01</b>	454	<b>225</b>	<b>1.25</b>	8.90	HYEc
▲ GUG80LG	125B1226	8.10	1/4	LBP	F	220-240V 50/60Hz	CSIR	R	C-V	113	158	<b>175</b>	<b>1.01</b>	454	<b>235</b>	<b>1.35</b>	9.40	Ub
▲ HY113Ya	125B1225	11.30	3/8	LBP	F	220-240V/50Hz	CSR	R	C-V	140	200	<b>246</b>	<b>1.05</b>	623	<b>330</b>	<b>1.35</b>	11.20	HYb
▲ HY131Ya	125B1228	13.10	1/2	LBP	F	220-240V/50Hz	CSR	R	C-V	187	259	<b>283</b>	<b>1.05</b>	723	<b>380</b>	<b>1.35</b>	11.20	HYb
▲ GPY14NGa	123B1313	14.32	1/2	LMBP	F	200-220/220-230v 50/60Hz	CSIR	R	C-V	147	205	<b>283</b>	<b>0.92</b>	636	<b>376</b>	<b>1.14</b>	12.59	Pd
▲ GPY14NGb	123B1314	14.32	1/2	LMBP	F	200-220/220-230v 50/60Hz	CSR	R	C-V	148	206	<b>284</b>	<b>0.97</b>	636	<b>388</b>	<b>1.27</b>	12.69	Pd
▲ GPY16La	123B1145	16.15	1/2	LBP	F	220-240V 50Hz	CSIR	R	C-V	151	220	<b>306</b>	<b>1.02</b>	677	<b>419</b>	<b>1.32</b>	11.73	Pd
▲ GPY16LAb	123B1146	16.15	1/2	LBP	F	220-240V 50Hz	CSR	R	C-V	151	220	<b>306</b>	<b>1.09</b>	677	<b>419</b>	<b>1.42</b>	11.83	Pd
▲ HY153Y	125B1229	15.30	1/2	LBP	F	220-240V/50Hz	CSIR	R	C-V	206	296	<b>314</b>	<b>1.00</b>	842	<b>430</b>	<b>1.28</b>	11.20	HYb

Green Cooling Models

▲ New Models

(\*) Or HFO1234yf

See design drawing on pages 40-41

(#) Ordering code for single compressors. For pallet packed compressors, please use 123F instead of 123B

# Danfoss Light Commercial Refrigeration Compressors

## R134a (\*) LBP | LMBP • 60 Hz

MODEL	DANFOSS CODE (†)	DISPLACEMENT cm <sup>3</sup>	POWER hp	APPLICATION	CPR COOLING	VOLTAGE FREQUENCY	MOTOR	STARTING	EXPANSION	REFRIGERATION CAPACITY								WEIGHT Kg	DESIGN
										COP in W/W Evaporating Temperature °C									
										CECOMAF (W)				ASHRAE					
										-35	-30	-25		-10	-23.3				
		W	COP		W	COP													
L22H5	123B8107	2.20	1/20	LBP	S	110-120V 60Hz	RSIR	P	C	19	28	<b>39</b>	<b>0.56</b>	87	<b>53</b>	<b>0.75</b>	3.60	Lb	
L30H5L	123B8108	3.10	1/12	LBP	S	110-120V 60Hz	RSIR	P	C	27	40	<b>57</b>	<b>0.73</b>	127	<b>78</b>	<b>0.95</b>	3.85	Lc	
▲ HYB30YHJ72a	125B1249	3.00	1/12	LBP	S	115-127V 60Hz	RSIR	P	C	38	55	<b>73</b>	<b>1.00</b>	163	<b>100</b>	<b>1.30</b>	5.00	HYBc	
B38H5	123B8110	3.80	1/12	LBP	S	110-115V 60Hz	RSIR	P	C	34	50	<b>71</b>	<b>0.96</b>	158	<b>97</b>	<b>1.10</b>	5.00	Bc	
B38H5L	123B8111	3.80	1/12	LBP	S	110-120V 60Hz	RSIR	P	C	34	50	<b>71</b>	<b>0.81</b>	158	<b>97</b>	<b>1.05</b>	4.60	Bc	
▲ HYB41Y72a	125B1240	4.10	1/8	LBP	S	115-127V 60Hz	RSIR	P	C	45	66	<b>95</b>	<b>1.00</b>	205	<b>130</b>	<b>1.30</b>	5.80	HYBf	
B43H5L	123B8114	4.30	1/10	LBP	S	110-120V 60Hz	RSIR	P	C	39	58	<b>81</b>	<b>0.81</b>	181	<b>110</b>	<b>1.05</b>	5.00	Bc	
▲ HYS45YT42a	125B1241	4.50	1/8	LBP	S	115V 60Hz	RSCR	P	C	54	80	<b>113</b>	<b>1.22</b>	234	<b>152</b>	<b>1.57</b>	7.40	HYSb	
▲ HYE55YT72a	125B1242	5.50	1/6	LBP	S	115-127V 60Hz	RSCR	P	C	74	101	<b>145</b>	<b>1.31</b>	305	<b>194</b>	<b>1.68</b>	8.60	HYEd	
▲ HYE60YD72	125B1236	6.00	1/6	LBP	S	115-127V 60Hz	RSCR	P	C	82	118	<b>164</b>	<b>1.40</b>	377	<b>220</b>	<b>1.80</b>	9.50	HYEd	
🌿 GUY60NRb	125B1314	6.00	1/6	LMBP	F	115-127V 60Hz	CSIR	R	C-V	80	113	<b>158</b>	<b>1.15</b>	362	<b>215</b>	<b>1.49</b>	9.00	Ub	
🌿 GUY60NRc	125B1315	6.00	1/6	LMBP	S	115-127V 60Hz	CSIR	R	C-V	80	113	<b>158</b>	<b>1.15</b>	362	<b>215</b>	<b>1.49</b>	9.00	Ub	
🌿 GUY70NRb	125B1316	6.70	1/5	LMBP	F	115-127V 60Hz	CSIR	R	C	86	121	<b>166</b>	<b>1.15</b>	386	<b>226</b>	<b>1.49</b>	9.30	Ub	
🌿 GUY70NRc	125B1317	6.70	1/5	LMBP	S	115-127V 60Hz	CSIR	R	C	86	121	<b>166</b>	<b>1.15</b>	386	<b>226</b>	<b>1.49</b>	9.30	Ub	
🌿 GUY80NRb	125B1318	8.10	1/4	LMBP	F	115-127V 60Hz	CSIR	R	C-V	107	151	<b>209</b>	<b>1.14</b>	480	<b>285</b>	<b>1.49</b>	9.60	Ub	
🌿 GUY80NRc	125B1319	8.10	1/4	LMBP	S	115-127V 60Hz	CSIR	R	C-V	107	151	<b>209</b>	<b>1.14</b>	480	<b>285</b>	<b>1.49</b>	9.60	Ub	
🌿 GLY12NRa	123B1304	10.70	1/3	LMBP	F	115-127V 60Hz	CSIR	R	C-V	119	168	<b>234</b>	<b>1.02</b>	531	<b>320</b>	<b>1.33</b>	11.20	Ld	
🌿 GLY12NRb	123B1305	10.70	1/3	LMBP	F	115-127V 60Hz	CSR	R	C-V	119	168	<b>234</b>	<b>1.07</b>	531	<b>320</b>	<b>1.39</b>	11.20	Ld	
▲ HY113Y42	125B1234	11.30	3/8	LBP	F	115V/60Hz	CSIR	R	C-V	126	192	<b>276</b>	<b>1.01</b>	636	<b>370</b>	<b>1.30</b>	11.40	HYb	
🌿 GPY12NRa	123B1315	12.10	3/8	LMBP	F	115-127V 60Hz	CSIR	R	C-V	123	187	<b>269</b>	<b>0.99</b>	621	<b>370</b>	<b>1.29</b>	12.78	Ld	
🌿 GPY12NRb	123B1316	12.10	3/8	LMBP	F	115-127V 60Hz	CSR	R	C-V	123	187	<b>269</b>	<b>1.05</b>	621	<b>370</b>	<b>1.36</b>	12.78	Ld	
🌿 GPY14NDa	123B1311	14.32	1/2	LMBP	F	115V/60Hz	CSIR	R	C-V	166	234	<b>322</b>	<b>0.90</b>	715	<b>440</b>	<b>1.17</b>	12.04	Pd	
🌿 GPY14NDb	123B1312	14.32	1/2	LMBP	F	115V/60Hz	CSR	R	C-V	168	235	<b>324</b>	<b>1.02</b>	722	<b>442</b>	<b>1.26</b>	12.14	Pd	
L30HL	123B8102	3.10	1/12	LBP	S	220-240V 50/60Hz	RSIR	P	C	26	39	<b>55</b>	<b>0.80</b>	123	<b>74</b>	<b>1.04</b>	4.20	Lc	
▲ HYB25YJ63a	125B1237	2.50	1/12	LBP	S	220-240V 50/60Hz	RSIR	P	C	26	39	<b>55</b>	<b>0.81</b>	123	<b>76</b>	<b>1.05</b>	4.26	HYBb	
B38H	123B8103	3.80	1/12	LBP	S/F	220-240V 60Hz	RSIR	P	C	34	50	<b>71</b>	<b>0.96</b>	158	<b>97</b>	<b>1.10</b>	4.60	Bc	
▲ HYB30YJ63a	125B1230	3.00	1/12	LBP	S	220-240V 50/60Hz	RSIR	P	C	32	46	<b>66</b>	<b>0.82</b>	148	<b>90</b>	<b>1.05</b>	4.26	HYBb	
▲ HYB35YJ63a	125B1238	3.50	1/12	LBP	S	220-240V 50/60Hz	RSIR	P	C	43	61	<b>77</b>	<b>0.82</b>	172	<b>104</b>	<b>1.05</b>	4.62	HYBc	
▲ HYB41YK63a	125B1239	4.10	1/8	LBP	S	220-240V 50/60Hz	RSCR	P	C	46	67	<b>96</b>	<b>1.16</b>	208	<b>132</b>	<b>1.50</b>	6.30	HYBf	
B43H	123B8104	4.30	1/10	LBP	S/F	220-240V 50/60Hz	RSIR	P	C	39	58	<b>81</b>	<b>0.96</b>	181	<b>110</b>	<b>1.10</b>	5.40	Bd	
B43HB	123B8105	4.30	1/10	LBP	S	220-240V 50/60Hz	RSCR	P	C	39	58	<b>81</b>	<b>1.00</b>	181	<b>110</b>	<b>1.30</b>	5.20	Bd	
▲ HYE55YL63	125B1231	5.50	1/6	LBP	S	220-240V 50/60Hz	RSIR	P	C	68	96	<b>130</b>	<b>0.90</b>	282	<b>175</b>	<b>1.15</b>	7.90	HYEc	
HYE60YL63	125B1232	6.00	1/6	LBP	S	220-240V 50/60Hz	RSIR	P	C	74	101	<b>145</b>	<b>0.90</b>	305	<b>195</b>	<b>1.15</b>	8.30	HYEc	
🌿 GUG80LG	125B1226	8.10	1/4	LBP	F	220-240V/50/60Hz	CSIR	R	C-V	102	143	<b>196</b>	<b>1.09</b>	456	<b>263</b>	<b>1.40</b>	9.20	Ub	
🌿 GPY14NGa	123B1313	14.32	1/2	LMBP	F	200-220/220-230v 50/60Hz	CSIR	R	C-V	173	241	<b>330</b>	<b>0.98</b>	728	<b>450</b>	<b>1.27</b>	12.59	Pd	
🌿 GPY14NGb	123B1314	14.32	1/2	LMBP	F	200-220/220-230v 50/60Hz	CSR	R	C-V	173	242	<b>331</b>	<b>1.03</b>	729	<b>452</b>	<b>1.33</b>	12.69	Pd	

🌿 Green Cooling Models

▲ New Models

(\*) Or HFO1234yf

See design drawing on pages 40-41

(†) Ordering code for single compressors. For pallet packed compressors, please use 123F instead of 123B

R134a (\*) HMBP | HBP • 50 Hz

MODEL	DANFOSS CODE (a)	DISPLACEMENT cm <sup>3</sup>	POWER hp	APPLICATION	CPR COOLING	VOLTAGE FREQUENCY	MOTOR	STARTING	EXPANSION	REFRIGERATION CAPACITY								WEIGHT Kg	DESIGN
										COP in W/W Evaporating Temperature °C									
										CECOMAF (W)				ASHRAE					
										-25	-15	5		10	7.2				
												W	COP		W	COP			
B22G	123B8115	2.20	1/20	HBP	S-F	220-240V 50Hz	RSIR	P	C	-	60	152	1.64	192	186	1.94	4.60	Bb	
B25G	123B8117	2.60	1/14	HBP	S-F	220-240V 50Hz	RSIR	P	C	-	76	202	1.53	243	242	2.08	4.60	Bb	
B25GL	123B8118	2.60	1/14	HBP	S	220-240V 50Hz	CSIR	R	C-V	-	70	190	1.84	228	228	2.14	5.50	Be	
B30G	123B8121	3.10	1/12	HBP	S-F	220-240V 50Hz	RSIR	P	C	-	83	229	1.77	270	272	1.77	4.80	Bc	
B30G	123B8120	3.10	1/12	HBP	S-F	220-240V 50Hz	CSIR	R	C-V	-	83	229	1.77	270	272	1.77	4.80	Bc	
B35GL	123B8123	3.50	1/12	HBP	S-F	220-240V 50Hz	CSIR	R	C-V	-	100	269	1.87	323	323	2.18	5.50	Bf	
B38G	123B8125	3.80	1/12	HBP	S-F	220-240V 50Hz	CSIR	R	C-V	-	129	291	1.91	347	347	2.23	5.00	Bc	
B43GL	123B8127	4.30	1/10	HBP	S-F	220-240V 50Hz	RSIR	P	C	-	122	348	1.75	422	419	1.77	5.30	Bf	
▲ GU45TG	125B1737	4.50	1/8	HMBP	F	200-230V/50Hz 220-240V/60Hz	CSIR	R	C-V	-	161	393	2.07	471	470	2.40	8.60	Ub	
▲ GU60TG	125B1738	6.00	1/6	HBP	F	200-230V/50Hz 220-240V/60Hz	CSIR	R	C-V	-	219	529	2.06	652	640	2.40	8.60	Ub	
🌿 GUY60RAa	125B1539	6.00	1/6	HMBP	F	220-240V 50Hz	CSIR	R	C-V	126	221	540	2.32	646	644	2.70	9.04	Ub	
🌿 GUY60RAb	125B1540	6.00	1/6	HMBP	F	220-240V 50Hz	CSR	R	C-V	126	222	545	2.53	653	651	2.95	9.16	Ub	
▲ GE70TG	125B1739	6.70	1/5	HBP	F	200-230V/50Hz 22-240v/60Hz	CSIR	R	C-V	-	242	584	2.01	711	705	2.20	8.60	Ub	
▲ GE80TG	125B1734	8.10	1/4	HBP	F	220-240V/50Hz 230V/60Hz	CSIR	R	C-V	-	285	687	1.99	847	830	2.20	8.90	Ub	
🌿 GUY80RAa	125B1543	8.10	1/4	HMBP	F	220-240V 50Hz	CSIR	R	C-V	174	302	720	2.22	859	858	2.45	9.70	Ub	
🌿 GUY80RAb	125B1544	8.10	1/4	HMBP	F	220-240V 50Hz	CSR	R	C-V	177	304	727	2.38	868	858	2.75	9.80	Ub	
GU80TB	125B1735	8.10	1/4	HBP	F	220-240V 50Hz	CSIR	R	C-V	-	272	693	1.99	836	830	2.30	9.30	Uc	
🌿 GUY90RAa	125B1545	8.80	1/4	HMBP	F	220-240V 50Hz	CSIR	R	C-V	182	317	775	2.21	929	925	2.45	9.70	Ub	
🌿 GUY90RAb	125B1546	8.80	1/4	HMBP	F	220-240V 50Hz	CSR	R	C-V	180	319	783	2.35	938	935	2.73	9.80	Ub	
🌿 GLY12RAa	123B1708	10.70	1/3	HBP	F	220-240V 50Hz	CSIR	R	C-V	-	349	867	1.97	1064	1047	2.30	10.23	Ld	
🌿 GLY12RAb	123B1709	10.70	1/3	HBP	F	220-240V 50Hz	CSR	R	C-V	-	349	867	2.20	1064	1047	2.57	10.33	Ld	
🌿 GLY12RGa	123B1710	10.70	1/3	HBP	F	200-220/220-230V 50/60Hz	CSIR	R	C-V	-	349	867	1.87	1064	1047	2.19	10.43	Ld	
🌿 GLY12RGb	123B1711	10.70	1/3	HBP	F	200-220/220-230V 50/60Hz	CSR	R	C-V	-	349	867	1.98	1064	1047	2.32	10.53	Ld	
▲ HY113YZ	125B1547	11.30	3/8	HMBP	F	220-240V 50Hz	CSIR	R	C-V	-	345	858	1.88	1052	1000	2.20	10.80	HYb	
🌿 GPY12RAa	123B1536	12.10	3/8	HMBP	F	220-240V 50Hz	CSIR	R	C-V	228	401	992	2.03	1191	1183	2.35	13.31	Pd	
🌿 GPY12RAb	123B1537	12.10	3/8	HMBP	F	220-240V 50Hz	CSR	R	C-V	228	401	992	2.23	1191	1183	2.58	13.42	Pd	
▲ HY131YZ	125B1548	13.10	1/2	HMBP	F	220-240V 50Hz	CSIR	R	C-V	224	394	975	1.92	1171	1160	2.20	10.80	HYb	
GP14TG	123B1539	14.17	1/2	HMBP	F	200-220/220-230V 50/60Hz	CSIR	R	C-V	190	373	998	1.76	1208	1198	2.03	11.98	Pd	
▲ HY153YZ	125B1740	15.30	1/2	HBP	F	220-240V 50Hz	CSIR	R	C-V	-	405	1083	1.87	1310	1300	2.15	10.80	HYb	
🌿 GPY14RAa	123B1540	14.32	1/2	HMBP	F	220-240V 50Hz	CSIR	R	C-V	296	492	1161	1.97	1386	1380	2.27	12.20	Pd	
🌿 GPY14RAb	123B1541	14.32	1/2	HMBP	F	220-240V 50Hz	CSR	R	C-V	296	492	1161	2.16	1386	1380	2.50	12.30	Pd	
GP16TB	123B1713	16.15	1/2	HBP	F	220-240V 50Hz	CSIR	R	C-V	-	476	1204	1.80	1451	1442	2.09	11.93	Pd	
GP16TG	123B1714	16.15	1/2	HBP	F	200-220/230V 50/60Hz	CSIR	R	C-V	-	476	1204	1.81	1451	1442	2.09	11.93	Pd	
🌿 GPY16RAa	123B1542	16.15	1/2	HMBP	F	220-240V 50Hz	CSIR	R	C-V	307	542	1317	2.02	1574	1571	2.34	12.84	Pd	
🌿 GPY16RAb	123B1543	16.15	1/2	HMBP	F	220-240V 50Hz	CSR	R	C-V	307	542	1317	2.15	1574	1571	2.50	12.94	Pd	
🌿 GPT16RG	123B1715	16.15	1/2	HBP	F	200-220/220-230V 50/60Hz	CSR	R	C-V	-	552	1323	2.13	1600	1586	2.50	12.16	Pd	
🌿 GPT18RA	123B1716	18.00	2/3	HBP	F	220-240V 50Hz	CSR	R	C-V	-	618	1482	2.06	1783	1774	2.39	12.68	Pd	
🌿 GPT18RG	123B1720	18.00	2/3	HBP	F	200-220/230V 50/60Hz	CSR	R	C-V	-	602	1443	2.04	1745	1731	2.37	12.84	Xc	
GX21TB	123B1546	20.72	2/3	HMBP	F	220-240V 50Hz	CSIR	R	C-V	323	603	1549	1.88	1866	1855	2.18	16.13	Xd	
GX23TB	123B1547	23.20	5/8	HMBP	F	220-240V 50Hz	CSIR	R	C-V	368	677	1729	1.88	2082	2070	2.18	16.33	Xd	
GX23TG	123B1548	23.20	5/8	HMBP	F	200-220/220-230V 50/60Hz	CSIR	R	C-V	368	677	1729	1.79	2082	2070	2.08	16.34	Xd	
GS26TB	123B1621	25.93	3/4	HMBP	F	220-240V 50Hz	CSIR	R	C-V	265	703	2070	2.08	2514	2489	2.42	22.70	Sc	

This table continues in the following page

🌿 Green Cooling Models

▲ New Models

(\*) Or HFO1234yf

(\*\*) Model under development. Provisional performance/data.

See design drawing on pages 40-41

(a) Ordering code for single compressors. For pallet packed compressors, please use 123F instead of 123B

## Danfoss Light Commercial Refrigeration Compressors

### R134a (\*) HMBP | HBP • 50 Hz

MODEL	DANFOSS CODE (†)	DISPLACEMENT cm <sup>3</sup>	POWER hp	APPLICATION	CPR COOLING	VOLTAGE FREQUENCY	MOTOR	STARTING	EXPANSION	REFRIGERATION CAPACITY								WEIGHT Kg	DESIGN
										COP in W/W Evaporating Temperature °C									
										CECOMAF (W)				ASHRAE					
										-25	-15	5		10	7.2				
												W	COP		W	COP			
GS26TG	123B1622	25.93	3/4	HMBP	F	200-220/220-230V 50/60Hz	CSIR	R	C-V	265	703	<b>2070</b>	<b>2.14</b>	2514	<b>2489</b>	<b>2.49</b>	22.70	Sc	
GS30TB	123B1624	29.95	7/8	HMBP	F	220-240V 50Hz	CSR	R	C-V	317	785	<b>2451</b>	<b>2.31</b>	3019	<b>2966</b>	<b>2.70</b>	22.70	Sd	
GS30TG	123B1625	29.95	7/8	HMBP	F	200-220/220-230V 50/60Hz	CSR	R	C-V	317	785	<b>2451</b>	<b>2.31</b>	3019	<b>2966</b>	<b>2.70</b>	23.00	Sd	
GS34TB	123B1626	34.42	1	HMBP	F	220-240V 50Hz	CSR	R	C-V	476	1068	<b>2850</b>	<b>2.26</b>	3420	<b>3408</b>	<b>2.62</b>	21.35	Sd	
GS34TG	123B1634	34.42	1	HMBP	F	200-220/220-230V 50/60Hz	CSR	R	C-V	467	992	<b>2829</b>	<b>2.24</b>	3453	<b>3409</b>	<b>2.64</b>	22.27	Sd	
GS26T3	123B1623	25.93	3/4	HMBP	F	400/440V 50/60Hz	3PHASE	P	C-V	265	703	<b>2070</b>	<b>2.19</b>	2514	<b>2489</b>	<b>2.55</b>	22.70	Sc	

Green Cooling Models

▲ New Models

















(\*) Or HFO1234yf

See design drawing on pages 40-41


(†) Ordering code for single compressors. For pallet packed compressors, please use 123F instead of 123B

# Danfoss Light Commercial Refrigeration Compressors

## R134a (\*) HMBP | HBP • 60 Hz

MODEL	DANFOSS CODE (a)	DISPLACEMENT cm <sup>3</sup>	POWER hp	APPLICATION	CPR COOLING	VOLTAGE FREQUENCY	MOTOR	STARTING	EXPANSION	REFRIGERATION CAPACITY								WEIGHT Kg	DESIGN
										COP in W/W Evaporating Temperature °C									
										CECOMAF (W)				ASHRAE					
										-25	-15	5		10	7.2				
		W	COP		W	COP													
B22G5	123B8116	2.20	1/20	HBP	S-F	110-115V 60Hz	RSIR	P	C	-	72	<b>188</b>	<b>1.83</b>	229	<b>226</b>	<b>2.13</b>	4.60	Bb	
B25G5L	123B8119	2.60	1/14	HBP	S-F	110-115V 60Hz	CSIR	R	C-V	-	88	<b>231</b>	<b>1.93</b>	283	<b>279</b>	<b>2.27</b>	5.70	Be	
B30G5	123B8122	3.10	1/12	HBP	S-F	110-115V 60Hz	RSIR	P	C	-	100	<b>262</b>	<b>1.55</b>	317	<b>314</b>	<b>1.80</b>	5.00	Be	
B35G5	123B8124	3.50	1/12	HBP	S-F	110-115V 60Hz	CSIR	R	C-V	-	120	<b>304</b>	<b>1.80</b>	371	<b>366</b>	<b>2.12</b>	5.00	Bc	
B38G5L	123B8126	3.80	1/12	HBP	S-F	110-115V 60Hz	CSIR	R	C-V	-	136	<b>353</b>	<b>1.83</b>	424	<b>422</b>	<b>2.13</b>	5.70	Be	
 GLY12RRa	123B1601	10.70	1/3	HMBP	F	115-127V 60Hz	CSIR	R	C-V	222	402	<b>1015</b>	<b>1.90</b>	1221	<b>1214</b>	<b>2.20</b>	11.14	Ld	
 GLY12RRb	123B1599	10.70	1/3	HMBP	F	115-127V 60Hz	CSR	R	C-V	222	402	<b>1015</b>	<b>2.01</b>	1221	<b>1214</b>	<b>2.32</b>	11.24	Ld	
 GPY12RDa	123B1580	12.10	3/8	HMBP	F	115V 60Hz	CSIR	R	C-V	280	480	<b>1150</b>	<b>1.95</b>	1375	<b>1372</b>	<b>2.25</b>	12.03	Pd	
 GPY12RDb	123B1581	12.10	3/8	HMBP	F	115V 60Hz	CSR	R	C-V	280	480	<b>1150</b>	<b>2.11</b>	1375	<b>1372</b>	<b>2.44</b>	12.13	Pd	
 GPY14RDa	123B1584	14.32	1/2	HBP	F	115V 60Hz	CSIR	R	C-V	-	317	<b>1234</b>	<b>1.78</b>	2012	<b>1706</b>	<b>2.22</b>	12.03	Pd	
 GPY14RDb	123B1585	14.32	1/2	HBP	F	115V 60Hz	CSR	R	C-V	-	317	<b>1234</b>	<b>1.89</b>	2012	<b>1706</b>	<b>2.36</b>	12.13	Pd	
 GP16TE	123B1718	16.15	1/2	HBP	F	115V 60Hz	CSIR	R	C-V	-	556	<b>1408</b>	<b>1.69</b>	1697	<b>1686</b>	<b>1.96</b>	12.20	Pd	
 GPY16RDa	123B1588	16.15	1/2	HBP	F	115V 60Hz	CSIR	R	C-V	-	614	<b>1518</b>	<b>1.88</b>	1822	<b>1814</b>	<b>2.17</b>	12.05	Pd	
 GPY16RDb	123B1589	16.15	1/2	HBP	F	115V 60Hz	CSR	R	C-V	-	614	<b>1518</b>	<b>2.00</b>	1822	<b>1814</b>	<b>2.31</b>	12.15	Pd	
 GU45TG	125B1737	4.50	1/8	HMBP	F	200-230V/50Hz 220-240V/60Hz	CSIR	R	C-V	101	177	<b>431</b>	<b>2.05</b>	515	<b>545</b>	<b>2.50</b>	8.60	Ub	
 GU60TG	125B1738	6.00	1/6	HBP	F	200-230V/50Hz 220-240V/60Hz	CSIR	R	C-V	-	257	<b>620</b>	<b>2.05</b>	765	<b>740</b>	<b>2.50</b>	8.60	Ub	
 GE70TG	125B1739	6.70	1/5	HBP	F	220-240V/50Hz 230V/60Hz	CSIR	R	C-V	-	285	<b>701</b>	<b>2.11</b>	842	<b>820</b>	<b>2.30</b>	8.60	Ub	
 GE80TG	125B1734	8.10	1/4	HBP	F	220-240V/50Hz 230V/60Hz	CSIR	R	C-V	-	328	<b>798</b>	<b>1.95</b>	995	<b>960</b>	<b>2.30</b>	8.90	Ub	
 GLY12RGa	123B1710	10.70	1/3	HBP	F	200-220/220-230V 50/60Hz	CSIR	R	C-V	-	405	<b>1007</b>	<b>1.90</b>	1216	<b>1207</b>	<b>2.22</b>	10.43	Ld	
 GLY12RGb	123B1711	10.70	1/3	HBP	F	200-220/220-230V 50/60Hz	CSR	R	C-V	-	405	<b>1007</b>	<b>2.07</b>	1216	<b>1207</b>	<b>2.40</b>	10.53	Ld	
GP14TG	123B1539	14.17	1/2	HMBP	F	200-220/220-230V 50/60Hz	CSIR	R	C-V	222	437	<b>1168</b>	<b>1.76</b>	1413	<b>1401</b>	<b>2.03</b>	11.98	Pd	
GP16TG	123B1714	16.15	1/2	HBP	F	200-220/230V 50/60Hz	CSIR	R	C-V	-	556	<b>1408</b>	<b>1.74</b>	1697	<b>1686</b>	<b>2.00</b>	11.93	Pd	
GPT16RG	123B1715	16.15	1/2	HBP	F	200-220/220-230V 50/60Hz	CSR	R	C-V	-	650	<b>1515</b>	<b>2.02</b>	1827	<b>1814</b>	<b>2.33</b>	12.16	Pd	
 GPT18RG	123B1720	18.00	2/3	HBP	F	200-220/230V 50/60Hz	CSR	R	C-V	-	693	<b>1640</b>	<b>1.90</b>	1979	<b>1964</b>	<b>2.20</b>	12.84	Pd	
GX23TG	123B1548	23.20	3/4	HMBP	F	200-220/220-230V 50/60Hz	CSIR	R	C-V	429	792	<b>2021</b>	<b>1.71</b>	2433	<b>2419</b>	<b>1.98</b>	16.34	Xd	
GS26TG	123B1622	25.93	3/4	HMBP	F	200-220/220-230V 50/60Hz	CSIR	R	C-V	307	824	<b>2419</b>	<b>2.06</b>	2935	<b>2908</b>	<b>2.40</b>	22.70	Sc	
GS30TG	123B1625	29.95	7/8	HMBP	F	200-220/220-230V 50/60Hz	CSR	R	C-V	370	920	<b>2865</b>	<b>2.23</b>	3527	<b>3466</b>	<b>2.61</b>	23.00	Sd	
GS34TF	123B1627	34.42	1	HMBP	F	220-230V 60Hz	CSR	R	C-V	550	1247	<b>3327</b>	<b>2.17</b>	3990	<b>3977</b>	<b>2.50</b>	22.70	Sd	
GS34TG	123B1634	34.42	1	HMBP	F	200-220/220-230V 50/60Hz	CSR	R	C-V	440	1093	<b>3248</b>	<b>2.11</b>	3963	<b>3913</b>	<b>2.44</b>	22.27	Sd	
GS26T3	123B1623	25.93	3/4	HMBP	F	400/440V 50/60Hz	3PHASE	P	C-V	307	824	<b>2419</b>	<b>2.07</b>	2935	<b>2908</b>	<b>2.40</b>	22.70	Sc	

 Green Cooling Models

 New Models  
(\*) Or HFO1234yf

See design drawing on pages 40-41



















(a) Ordering code for single compressors. For pallet packed compressors, please use 123F instead of 123B

	Conditions			
	CECOMAF		ASHRAE	
	LBP	HMBP/HBP	LBP	HMBP/HBP
Evaporating temperature °C	-25	5	-23.3	7.2
Condensing temperature °C	55	55	55	55
Liquid temperature °C	55	55	32	46
Suction temperature °C	32	32	32	35
Ambient temperature °C	32	32	32	35


**R404A/R507**



R404A • R507 LBP • 50 Hz

	MODEL	DANFOSS CODE (n)	DISPLACEMENT cm <sup>3</sup>	POWER hp	APPLICATION	CPR COOLING	VOLTAGE FREQUENCY	MOTOR	STARTING	EXPANSION	REFRIGERATION CAPACITY								WEIGHT Kg	DESIGN
											COP in W/W Evaporating Temperature °C									
											CECOMAF (W)				ASHRAE					
											-40	-30	-25		-10	-23.3				
													W	COP		W	COP			
	MLY45LAa	123B2105	4.56	1/6	LBP	F	220-240V 50Hz	CSIR	R	C-V	61	118	<b>157</b>	<b>0.92</b>	317	<b>233</b>	<b>1.30</b>	9.55	Lc	
	MLY45LAb	123B2106	4.56	1/6	LBP	F	220-240V 50Hz	CSR	R	C-V	61	118	<b>157</b>	<b>0.98</b>	317	<b>233</b>	<b>1.38</b>	9.65	Lc	
	ML60FB	123B2107	5.98	1/5	LBP	F	220-240V 50Hz	CSIR	R	C-V	73	140	<b>186</b>	<b>0.86</b>	371	<b>275</b>	<b>1.20</b>	8.84	Lc	
	ML60FBa	123B2187	5.98	1/5	LBP	F	220-240V 50Hz	RSIR	P	C	73	140	<b>186</b>	<b>0.86</b>	371	<b>275</b>	<b>1.20</b>	8.84	Lc	
	ML60FG	123B2108	5.98	1/5	LBP	F	200-240/220-230V 50/60Hz	CSIR	R	C-V	69	134	<b>177</b>	<b>0.71</b>	351	<b>262</b>	<b>1.01</b>	10.87	Lc	
	MLY60LAa	123B2109	5.98	1/5	LBP	F	220-240V 50Hz	CSIR	R	C-V	86	168	<b>221</b>	<b>0.90</b>	428	<b>326</b>	<b>1.26</b>	10.02	Lc	
	MLY60LAb	123B2110	5.98	1/5	LBP	F	220-240V 50Hz	CSR	R	C-V	86	168	<b>221</b>	<b>0.96</b>	428	<b>326</b>	<b>1.36</b>	10.12	Lc	
	ML80FB	123B2111	8.10	1/4	LBP	F	220-240V 50Hz	CSIR	R	C-V	99	189	<b>251</b>	<b>0.77</b>	505	<b>371</b>	<b>1.09</b>	9.47	Lc	
	ML80FG	123B2112	8.10	1/4	LBP	F	200-240/220-230V 50/60Hz	CSIR	R	C-V	99	190	<b>252</b>	<b>0.77</b>	505	<b>372</b>	<b>1.08</b>	12.20	Ld	
	MLY80LAa	123B2113	8.10	1/4	LBP	F	220-240V 50Hz	CSIR	R	C-V	104	207	<b>275</b>	<b>0.91</b>	548	<b>407</b>	<b>1.28</b>	9.59	Ld	
	MLY80LAb	123B2114	8.10	1/4	LBP	F	220-240V 50Hz	CSR	R	C-V	104	207	<b>275</b>	<b>0.98</b>	548	<b>407</b>	<b>1.38</b>	9.69	Ld	
	ML90FB	123B2115	8.85	1/3	LBP	F	220-240V 50Hz	CSIR	R	C-V	104	207	<b>275</b>	<b>0.83</b>	548	<b>407</b>	<b>1.16</b>	9.59	Ld	
	ML90FBa	123B2188	8.85	1/3	LBP	F	220-240V 50Hz	RSIR	P	C	104	207	<b>275</b>	<b>0.83</b>	548	<b>407</b>	<b>1.16</b>	9.59	Ld	
	ML90FG	123B2116	8.85	1/3	LBP	F	200-220/230V 50/60Hz	CSIR	R	C-V	104	207	<b>275</b>	<b>0.80</b>	548	<b>407</b>	<b>1.13</b>	10.78	Ld	
	MLY90LAa	123B2117	9.09	1/3	LBP	F	220-240V 50Hz	CSIR	R	C-V	121	236	<b>311</b>	<b>0.91</b>	612	<b>460</b>	<b>1.28</b>	10.35	Ld	
	MLY90LAb	123B2118	9.09	1/3	LBP	F	220-240V 50Hz	CSR	R	C-V	121	236	<b>311</b>	<b>0.98</b>	612	<b>460</b>	<b>1.38</b>	10.45	Ld	
	MLY12LAa	123B2119	10.70	3/8	LBP	F	220-240V 50Hz	CSIR	R	C-V	156	294	<b>387</b>	<b>0.94</b>	762	<b>570</b>	<b>1.33</b>	11.18	Ld	
	MLY12LAb	123B2120	10.70	3/8	LBP	F	220-240V 50Hz	CSR	R	C-V	156	294	<b>387</b>	<b>1.00</b>	762	<b>570</b>	<b>1.41</b>	11.28	Ld	
	MLY12LGa	123B2121	10.70	3/8	LBP	F	200-220/230V 50/60Hz	CSIR	R	C-V	165	297	<b>387</b>	<b>0.83</b>	756	<b>570</b>	<b>1.17</b>	11.06	Ld	
	MLY12LGb	123B2122	10.70	3/8	LBP	F	200-220/230V 50/60Hz	CSR	R	C-V	165	302	<b>394</b>	<b>0.90</b>	768	<b>581</b>	<b>1.28</b>	11.16	Ld	
	MPT12LA	123B2123	12.10	3/8	LBP	F	220-240V 50Hz	CSR	R	C-V	194	347	<b>451</b>	<b>1.01</b>	873	<b>663</b>	<b>1.42</b>	12.23	Pd	
	MP14FB	123B2124	14.17	1/2	LBP	F	220-240V 50Hz	CSIR	R	C-V	121	304	<b>421</b>	<b>0.79</b>	877	<b>629</b>	<b>1.12</b>	12.07	Pd	
	MP14FG	123B2125	14.17	1/2	LBP	F	200-220/230V 50/60Hz	CSIR	R	C-V	121	303	<b>420</b>	<b>0.79</b>	877	<b>627</b>	<b>1.12</b>	12.03	Pd	
	MPT14LA	123B2126	14.32	1/2	LBP	F	220-240V 50Hz	CSR	R	C-V	242	419	<b>534</b>	<b>0.99</b>	984	<b>780</b>	<b>1.38</b>	12.25	Pd	
	MPT16LA	123B2127	16.15	1/2	LBP	F	220-240V 50Hz	CSR	R	C-V	245	462	<b>605</b>	<b>1.00</b>	1168	<b>890</b>	<b>1.40</b>	12.37	Pd	
	MPT18LA	123B2128	18.00	1/2	LBP	F	220-240V 50Hz	CSR	R	C-V	269	504	<b>657</b>	<b>0.96</b>	1260	<b>966</b>	<b>1.35</b>	12.81	Pd	
	MX21FGa	123B2186	20.72	3/4	LBP	F	200-220/220-230V 50/60Hz	CSR	R	C-V	212	463	<b>630</b>	<b>0.96</b>	1296	<b>937</b>	<b>1.35</b>	16.76	Xd	
	MX23FBa	123B2132	23.20	7/8	LBP	F	220-240V 50Hz	CSR	R	C-V	259	534	<b>718</b>	<b>0.96</b>	1455	<b>1065</b>	<b>1.35</b>	16.61	Xd	
	MX23FGa	123B2183	23.20	7/8	LBP	F	200-220/220-230V 50/60Hz	CSR	R	C-V	259	534	<b>718</b>	<b>0.95</b>	1455	<b>1065</b>	<b>1.34</b>	16.74	Xd	
	MS26FB	123B2193	25.93	3/4	LBP	F	220-240V 50Hz	CSR	R	C-V	182	571	<b>814</b>	<b>0.97</b>	1737	<b>1222</b>	<b>1.37</b>	21.63	Sd	
	MS26FG	123B2194	25.93	3/4	LBP	F	200-220/230V 50/60Hz	CSR	R	C-V	173	547	<b>775</b>	<b>0.95</b>	1626	<b>1162</b>	<b>1.35</b>	22.11	Sd	
	MS30FB	123B2196	29.95	7/8	LBP	F	220-240V 50Hz	CSR	R	C-V	207	656	<b>932</b>	<b>0.95</b>	1969	<b>1398</b>	<b>1.35</b>	22.70	Sd	
	MST34LA	123B2191	34.42	1 3/8	LBP	F	220-240V 50Hz	CSR	R	C-V	617	857	<b>1143</b>	<b>0.93</b>	2276	<b>1690</b>	<b>1.31</b>	22.90	Sd	
	MST38LA	123B2192	38.00	1 5/8	LBP	F	220-240V 50Hz	CSR	R	C-V	697	959	<b>1275</b>	<b>0.88</b>	2542	<b>1884</b>	<b>1.40</b>	22.85	Sd	
	MS26F3	123B2195	25.93	3/4	LBP	F	400/440V 50/60Hz	3PHASE	P	C-V	173	548	<b>777</b>	<b>0.95</b>	1626	<b>1164</b>	<b>1.35</b>	20.80	Sd	
	MS30F3	123B2197	29.95	7/8	LBP	F	400/440V 50/60Hz	3PHASE	P	C-V	207	655	<b>931</b>	<b>0.93</b>	1968	<b>1397</b>	<b>1.32</b>	24.00	Sd	
	MS34F3	123B2199	34.42	1	LBP	F	400/440V 50/60Hz	3PHASE	P	C-V	242	762	<b>1085</b>	<b>0.99</b>	2311	<b>1630</b>	<b>1.40</b>	22.90	Sd	

 Green Cooling Models

 New Models

See design drawing on pages 40-41

(n) Ordering code for single compressors. For pallet packed compressors, please use 123F instead of 123B

# Danfoss Light Commercial Refrigeration Compressors

## R404A • R507 LBP • 60 Hz

	MODEL	DANFOSS CODE (#)	DISPLACEMENT cm <sup>3</sup>	POWER hp	APPLICATION	CPR COOLING	VOLTAGE FREQUENCY	MOTOR	STARTING	EXPANSION	REFRIGERATION CAPACITY						WEIGHT Kg	DESIGN	
											COP in W/W Evaporating Temperature °C								
											CECOMAF (W)			ASHRAE					
											-40	-30	-25		-10	-23.3			
													W	COP		W			COP
	ML45FR	123B2160	4.56	1/6	LBP	F	115-127V 60Hz	CSIR	R	C-V	61	117	<b>157</b>	<b>0.72</b>	321	<b>233</b>	<b>1.01</b>	9.21	Lc
🌿	MLY45LRa	123B2141	4.56	1/6	LBP	F	115-127V 60Hz	CSIR	R	C-V	64	143	<b>192</b>	<b>0.87</b>	379	<b>284</b>	<b>1.23</b>	9.20	Lc
🌿	MLY45LRb	123B2142	4.56	1/6	LBP	F	115-127V 60Hz	CSR	R	C-V	64	143	<b>192</b>	<b>0.90</b>	379	<b>284</b>	<b>1.27</b>	9.30	Lc
	ML60FR	123B2143	5.98	1/5	LBP	F	115-127V 60Hz	CSIR	R	C-V	81	157	<b>207</b>	<b>0.72</b>	411	<b>306</b>	<b>1.01</b>	9.54	Lc
🌿	MLY60Lda	123B2144	5.98	1/5	LBP	F	115V 60Hz	CSIR	R	C-V	102	197	<b>259</b>	<b>0.89</b>	501	<b>381</b>	<b>1.25</b>	10.40	Lc
🌿	MLY60Ldb	123B2145	5.98	1/5	LBP	F	115V 60Hz	CSR	R	C-V	102	197	<b>259</b>	<b>0.95</b>	501	<b>381</b>	<b>1.34</b>	10.50	Lc
	ML80FR	123B2146	8.10	1/4	LBP	F	115-127V 60Hz	CSIR	R	C-V	117	223	<b>296</b>	<b>0.75</b>	590	<b>437</b>	<b>1.05</b>	11.97	Ld
	ML90FR	123B2147	8.85	1/3	LBP	F	115-127V 60Hz	CSIR	R	C-V	121	242	<b>323</b>	<b>0.79</b>	642	<b>477</b>	<b>1.11</b>	11.97	Ld
🌿	MLT90LD	123B2148	9.09	1/4	LBP	F	115V 60Hz	CSR	R	C-V	159	284	<b>373</b>	<b>0.99</b>	750	<b>551</b>	<b>1.40</b>	11.80	Ld
🌿	MLY12LRa	123B2181	10.70	3/8	LBP	F	115-127V 60Hz	CSIR	R	C-V	199	373	<b>478</b>	<b>0.96</b>	866	<b>698</b>	<b>1.34</b>	11.01	Ld
🌿	MLY12LRb	123B2182	10.70	3/8	LBP	F	115-127V 60Hz	CSR	R	C-V	200	369	<b>476</b>	<b>1.00</b>	890	<b>698</b>	<b>1.41</b>	11.11	Ld
🌿	MPT12LD	123B2152	12.10	3/8	LBP	F	115V 60Hz	CSR	R	C-V	225	397	<b>515</b>	<b>1.01</b>	993	<b>756</b>	<b>1.41</b>	11.50	Pd
🌿	MPT14LD	123B2155	14.32	1/2	LBP	F	115V 60Hz	CSR	R	C-V	258	453	<b>590</b>	<b>0.96</b>	1156	<b>868</b>	<b>1.35</b>	12.20	Pd
🌿	MPT16LD	123B2184	16.10	1/2	LBP	F	115V 60Hz	CSR	R	C-V	269	509	<b>666</b>	<b>0.95</b>	1285	<b>979</b>	<b>1.33</b>	12.65	Pd
	MX21FR	123B2185	20.72	3/4	LBP	F	115-127V 60Hz	CSR	R	C-V	247	627	<b>768</b>	<b>0.98</b>	1001	<b>1093</b>	<b>1.32</b>	17.71	Xd
	ML45FG	123B2104	4.56	1/6	LBP	F	200-240/220-230V 50/60Hz	CSIR	R	C-V	61	117	<b>157</b>	<b>0.68</b>	321	<b>233</b>	<b>0.97</b>	10.87	Lc
	ML60FG	123B2108	5.98	1/5	LBP	F	200-240/220-230V 50/60Hz	CSIR	R	C-V	81	157	<b>207</b>	<b>0.70</b>	411	<b>306</b>	<b>0.99</b>	10.87	Lc
	ML80FG	123B2112	8.10	1/4	LBP	F	200-220/220-230V 50/60Hz	CSIR	R	C-V	117	223	<b>296</b>	<b>0.76</b>	590	<b>437</b>	<b>1.07</b>	12.20	Ld
	ML90FG	123B2116	8.85	1/3	LBP	F	200-220/230V 50/60Hz	CSIR	R	C-V	121	242	<b>323</b>	<b>0.80</b>	642	<b>477</b>	<b>1.12</b>	10.78	Ld
🌿	MLY12Lfa	123B2179	10.70	3/8	LBP	F	208-230V 60Hz	CSIR	R	C-V	179	343	<b>451</b>	<b>0.92</b>	882	<b>665</b>	<b>1.29</b>	11.06	Ld
🌿	MLY12Lfb	123B2180	10.70	3/8	LBP	F	208-230V 60Hz	CSR	R	C-V	179	343	<b>451</b>	<b>0.94</b>	882	<b>665</b>	<b>1.33</b>	11.16	Ld
🌿	MLY12Lga	123B2121	10.70	3/8	LBP	F	200-220/230V 50/60Hz	CSIR	R	C-V	190	351	<b>458</b>	<b>0.86</b>	884	<b>673</b>	<b>1.22</b>	11.06	Ld
🌿	MLY12Lgb	123B2122	10.70	3/8	LBP	F	200-220/230V 50/60Hz	CSR	R	C-V	190	357	<b>466</b>	<b>0.91</b>	889	<b>684</b>	<b>1.29</b>	11.16	Ld
	MP14FG	123B2125	14.17	1/2	LBP	F	200-220/230V 50/60Hz	CSIR	R	C-V	142	355	<b>492</b>	<b>0.82</b>	1026	<b>734</b>	<b>1.15</b>	12.03	Pd
🌿	MPT14LF	123B2156	14.32	1/2	LBP	F	208-230V 60Hz	CSR	R	C-V	262	474	<b>621</b>	<b>0.96</b>	1223	<b>914</b>	<b>1.36</b>	12.30	Pd
🌿	MPT16LF	123B2190	16.10	1/2	LBP	F	208-230V 60Hz	CSR	R	C-V	390	524	<b>685</b>	<b>0.97</b>	1330	<b>1008</b>	<b>1.36</b>	12.11	Pd
🌿	MPT18LF	123B2189	18.00	1/2	LBP	F	208-230V 60Hz	CSR	R	C-V	417	560	<b>733</b>	<b>0.97</b>	1421	<b>1078</b>	<b>1.36</b>	12.97	Pd
	MX21FGa	123B2186	20.72	3/4	LBP	F	200-220/220-230V 50/60Hz	CSR	R	C-V	247	540	<b>735</b>	<b>0.94</b>	1515	<b>1093</b>	<b>1.32</b>	16.76	Xd
	MX23FGa	123B2183	23.20	7/8	LBP	F	200-220/220-230V 50/60Hz	CSR	R	C-V	303	627	<b>843</b>	<b>0.93</b>	1711	<b>1250</b>	<b>1.32</b>	16.74	Xd
	MS26FF	123B2201	25.93	3/4	LBP	F	208-230V 60Hz	CSR	R	C-V	202	641	<b>909</b>	<b>0.91</b>	1902	<b>1361</b>	<b>1.30</b>	22.60	Sd
	MS26FG	123B2194	25.93	3/4	LBP	F	200-220/230V 50/60Hz	CSR	R	C-V	202	640	<b>907</b>	<b>0.92</b>	1902	<b>1358</b>	<b>1.31</b>	22.11	Sd
	MS30FF	123B2202	29.95	7/8	LBP	F	208-230V 60Hz	CSR	R	C-V	242	763	<b>1086</b>	<b>0.92</b>	2302	<b>1628</b>	<b>1.31</b>	22.70	Sd
	MS30FG	123B2203	29.95	7/8	LBP	F	208V 60Hz	CSR	R	C-V	242	763	<b>1086</b>	<b>0.95</b>	2302	<b>1628</b>	<b>1.36</b>	22.70	Sd
	MS34FF	123B2211	34.42	1	LBP	F	208V 60Hz	CSR	R	C-V	272	838	<b>1216</b>	<b>0.91</b>	2738	<b>1838</b>	<b>1.30</b>	22.90	Sd
	MS26F3	123B2195	25.93	3/4	LBP	F	400/440V 50/60Hz	3PHASE	P	C-V	202	641	<b>909</b>	<b>0.92</b>	1902	<b>1361</b>	<b>1.31</b>	20.80	Sd
	MS30F3	123B2197	29.95	7/8	LBP	F	400/440V 50/60Hz	3PHASE	P	C-V	242	763	<b>1086</b>	<b>0.94</b>	2302	<b>1628</b>	<b>1.32</b>	24.00	Sd
	MS34F3	123B2199	34.42	1	LBP	F	400/440V 50/60Hz	3PHASE	P	C-V	277	885	<b>1263</b>	<b>0.96</b>	2696	<b>1896</b>	<b>1.35</b>	22.90	Sd

🌿 Green Cooling Models

▲ New Models

















See design drawing on pages 40-41

(\*) Ordering code for single compressors. For pallet packed compressors, please use 123F instead of 123B




## Danfoss Light Commercial Refrigeration Compressors

### R404A • R507 HMBP | HBP • 50 Hz

MODEL	DANFOSS CODE (†)	DISPLACEMENT cm <sup>3</sup>	POWER hp	APPLICATION	CPR COOLING	VOLTAGE FREQUENCY	MOTOR	STARTING	EXPANSION	REFRIGERATION CAPACITY						WEIGHT Kg	DESIGN	
										COP in W/W Evaporating Temperature °C								
										CECOMAF (W)			ASHRAE					
										-25	-15	5	10	7.2				
		W	COP		W	COP												
ML40TB	123B2501	4.05	1/6	HMBP	F	220-240V 50Hz	CSIR	R	C-V	132	212	<b>470</b>	<b>1.41</b>	555	<b>593</b>	<b>1.74</b>	9.47	Lc
ML40TG	123B2502	4.05	1/6	HMBP	F	200-240/220-230V 50/60Hz	CSIR	R	C-V	132	212	<b>470</b>	<b>1.41</b>	555	<b>593</b>	<b>1.74</b>	9.12	Lc
ML45TB	123B2503	4.56	1/5	HMBP	F	220-240V 50Hz	CSIR	R	C-V	150	237	<b>525</b>	<b>1.47</b>	621	<b>663</b>	<b>1.82</b>	9.10	Lc
ML45TG	123B2504	4.50	1/6	HMBP	F	200-240/220-230V 50/60Hz	CSIR	R	C-V	160	261	<b>572</b>	<b>1.59</b>	673	<b>721</b>	<b>1.95</b>	9.14	Lc
 MLT45RG	123B2546	4.56	1/5	HMBP	F	200-220/230V 50/60Hz	CSR	R	C-V	160	262	<b>591</b>	<b>1.91</b>	699	<b>747</b>	<b>2.36</b>	9.75	Ld
ML60TB	123B2507	5.68	1/4	HMBP	F	220-240V 50Hz	CSIR	R	C-V	165	276	<b>643</b>	<b>1.50</b>	765	<b>814</b>	<b>1.85</b>	9.29	Lc
ML60TG	123B2508	5.68	1/4	HMBP	F	200-220/230V 50/60Hz	CSIR	R	C-V	165	276	<b>643</b>	<b>1.50</b>	765	<b>814</b>	<b>1.85</b>	10.57	Lc
 MLY60RAa	123B2505	5.98	1/4	HMBP	F	220-240V 50Hz	CSIR	R	C-V	210	344	<b>761</b>	<b>1.74</b>	896	<b>959</b>	<b>2.15</b>	10.49	Lc
 MLY60RAb	123B2506	5.98	1/4	HMBP	F	220-240V 50Hz	CSR	R	C-V	210	344	<b>761</b>	<b>1.91</b>	896	<b>959</b>	<b>2.36</b>	10.59	Lc
 MLY60RGa	123B2550	5.98	1/4	HMBP	F	200-220/220-230V 50/60Hz	CSIR	R	C-V	215	341	<b>765</b>	<b>1.85</b>	907	<b>968</b>	<b>2.29</b>	10.24	Lc
 MLY60RGb	123B2551	5.98	1/4	HMBP	F	200-220/220-230V 50/60Hz	CSR	R	C-V	216	352	<b>778</b>	<b>2.00</b>	916	<b>980</b>	<b>2.48</b>	10.34	Lc
ML80TB	123B2511	7.57	3/8	HMBP	F	220-240V 50Hz	CSIR	R	C-V	225	383	<b>875</b>	<b>1.61</b>	1034	<b>1105</b>	<b>1.99</b>	9.68	Ld
ML80TG	123B2512	7.57	3/8	HMBP	F	200-240/220-230V 50/60Hz	CSIR	R	C-V	225	383	<b>875</b>	<b>1.61</b>	1034	<b>1105</b>	<b>1.99</b>	11.81	Ld
 MLY80RAa	123B2509	8.10	3/8	HMBP	F	220-240V 50Hz	CSIR	R	C-V	280	461	<b>1049</b>	<b>1.84</b>	1243	<b>1326</b>	<b>2.27</b>	11.29	Ld
 MLY80RAb	123B2510	8.00	3/8	HMBP	F	220-240V 50Hz	CSR	R	C-V	280	461	<b>1049</b>	<b>1.99</b>	1243	<b>1326</b>	<b>2.46</b>	11.39	Ld
ML90TB	123B2515	8.85	3/8	HMBP	F	220-240V 50Hz	CSIR	R	C-V	280	461	<b>1049</b>	<b>1.61</b>	1243	<b>1326</b>	<b>1.98</b>	12.31	Ld
ML90TG	123B2516	8.85	3/8	HMBP	F	200-220/230V 50/60Hz	CSIR	R	C-V	280	461	<b>1049</b>	<b>1.61</b>	1243	<b>1326</b>	<b>1.98</b>	11.29	Ld
 MLY90RAa	123B2513	9.09	3/8	HMBP	F	220-240V 50Hz	CSIR	R	C-V	316	509	<b>1125</b>	<b>1.73</b>	1327	<b>1419</b>	<b>2.13</b>	11.34	Ld
 MLY90RAb	123B2514	9.09	3/8	HMBP	F	220-240V 50Hz	CSR	R	C-V	316	508	<b>1129</b>	<b>1.89</b>	1333	<b>1425</b>	<b>2.34</b>	11.44	Ld
 MLT12RA	123B2540	10.70	3/8	HMBP	F	220-240V 50Hz	CSR	R	C-V	396	632	<b>1379</b>	<b>1.88</b>	1622	<b>1738</b>	<b>2.31</b>	11.59	Ld
 MLT12RG	123B2532	10.70	3/8	HMBP	F	200-220/220-230V 50/60Hz	CSR	R	C-V	365	601	<b>1337</b>	<b>1.83</b>	1576	<b>1686</b>	<b>2.26</b>	12.24	Ld
 MPT12RG	123B2703	12.10	3/8	HBP	F	200-220/220-230V 50/60Hz	CSR	R	C-V	482	689	<b>1489</b>	<b>1.87</b>	1769	<b>1884</b>	<b>2.33</b>	12.89	Pd
 MPT12RA	123B2518	12.10	3/8	HMBP	F	220-240V 50Hz	CSR	R	C-V	437	723	<b>1559</b>	<b>1.91</b>	1823	<b>1960</b>	<b>2.35</b>	12.20	Pd
 MPT14RA	123B2704	14.32	1/2	HBP	F	220-240V 50Hz	CSR	R	C-V	-	789	<b>1750</b>	<b>1.78</b>	2068	<b>2210</b>	<b>2.20</b>	12.25	Pd
 MPT16RA	123B2715	16.10	2/3	HBP	F	220-240V 50Hz	CSR	R	C-V	-	878	<b>1904</b>	<b>1.66</b>	2248	<b>2403</b>	<b>2.05</b>	13.60	Pd
MX18TBa	123B2707	18.40	7/8	HMBP	F	220-240V 50Hz	CSR	R	C-V	551	932	<b>2143</b>	<b>1.76</b>	2540	<b>2710</b>	<b>2.18</b>	16.33	Xd
MX18TGa	123B2541	18.40	7/8	HMBP	F	200-220/220-230V 50/60Hz	CSR	R	C-V	551	932	<b>2143</b>	<b>1.76</b>	2540	<b>2710</b>	<b>2.18</b>	16.24	Xd
MX21TBa	123B2708	20.72	1	HMBP	F	220-240V 50Hz	CSR	R	C-V	621	1047	<b>2409</b>	<b>1.74</b>	2857	<b>3047</b>	<b>2.15</b>	16.52	Xd
MX21TGa	123B2714	20.72	1	HMBP	F	200-220/220-230V 50/60Hz	CSR	R	C-V	621	1047	<b>2409</b>	<b>1.74</b>	2857	<b>3047</b>	<b>2.15</b>	16.74	Xd
MS22TB	123B2553	21.75	1	HMBP	F	220-240V 50Hz	CSR	R	C-V	451	967	<b>2550</b>	<b>2.02</b>	3060	<b>3244</b>	<b>2.50</b>	20.51	Sc
MS26TB	123B2555	25.93	1 3/8	HMBP	F	220-240V 50Hz	CSR	R	C-V	671	1288	<b>3164</b>	<b>2.00</b>	3767	<b>4010</b>	<b>2.46</b>	22.12	Sd
MS26TG	123B2556	25.93	1 3/8	HMBP	F	200-220/230V 50/60Hz	CSR	R	C-V	671	1289	<b>3166</b>	<b>2.00</b>	3769	<b>4012</b>	<b>2.46</b>	23.00	Sd
MS34TB	123B2717	34.42	1 5/8	HBP	F	220-240V 50Hz	CSR	R	C-V	-	1850	<b>4205</b>	<b>1.89</b>	4930	<b>5292</b>	<b>2.30</b>	22.21	Sd
MS34TG	123B2718	34.42	1 5/8	HBP	F	200-220/230V 50/60Hz	CSR	R	C-V	-	1850	<b>4205</b>	<b>1.89</b>	4930	<b>5292</b>	<b>2.30</b>	22.78	Sd
 MST38RA	123B2716	38.00	2	HBP	F	220-240V 50Hz	CSR	R	C-V	-	2035	<b>4625</b>	<b>1.89</b>	5423	<b>5821</b>	<b>2.30</b>	22.65	Sd
MS18T3	123B2552	18.10	7/8	HMBP	F	400/440V 50/60Hz	3PHASE	P	C-V	421	834	<b>2124</b>	<b>1.89</b>	2543	<b>2698</b>	<b>2.35</b>	20.00	Sc
MS22T3	123B2554	21.75	1	HMBP	F	400/440V 50/60Hz	3PHASE	P	C-V	451	970	<b>2560</b>	<b>1.98</b>	3072	<b>3256</b>	<b>2.45</b>	20.00	Sc
MS26T3	123B2557	25.93	1 3/8	HMBP	F	400/440V 50/60Hz	3PHASE	P	C-V	671	1289	<b>3166</b>	<b>1.98</b>	3769	<b>4012</b>	<b>2.45</b>	18.60	Sd
MS34T3	123B2558	34.42	1 5/8	HMBP	F	400/440V 50/60Hz	3PHASE	P	C-V	1002	1850	<b>4205</b>	<b>1.79</b>	4930	<b>5292</b>	<b>2.20</b>	22.80	Sd













 Green Cooling Models

 New Models

See design drawing on pages 40-41

(†) Ordering code for single compressors. For pallet packed compressors, please use 123F instead of 123B

R404A • R507 HMBP | HBP • 60 Hz

MODEL	DANFOSS CODE (†)	DISPLACEMENT cm <sup>3</sup>	POWER hp	APPLICATION	CPR COOLING	VOLTAGE FREQUENCY	MOTOR	STARTING	EXPANSION	REFRIGERATION CAPACITY								WEIGHT Kg	DESIGN
										COP in W/W Evaporating Temperature °C									
										CECOMAF (W)				ASHRAE					
										-25	-15	5		10	7.2				
W	COP	W	COP																
ML60TR	123B2529	5.68	1/4	HMBP	F	115-127V 60Hz	CSIR	R	C-V	193	323	<b>753</b>	<b>1.48</b>	896	<b>954</b>	<b>1.83</b>	10.58	Lc	
 MLY60RDa	123B2527	5.98	1/4	HMBP	F	115V 60Hz	CSIR	R	C-V	250	408	<b>900</b>	<b>1.70</b>	1059	<b>1134</b>	<b>2.10</b>	10.55	Lc	
 MLY60RDb	123B2528	5.98	1/4	HMBP	F	115V 60Hz	CSR	R	C-V	250	408	<b>900</b>	<b>1.83</b>	1059	<b>1134</b>	<b>2.27</b>	10.65	Lc	
 MLY80RDa	123B2530	8.10	3/8	HMBP	F	115V 60Hz	CSIR	R	C-V	329	541	<b>1224</b>	<b>1.75</b>	1449	<b>1547</b>	<b>2.15</b>	11.21	Ld	
 MLY80RDb	123B2531	8.10	3/8	HMBP	F	115V 60Hz	CSR	R	C-V	329	541	<b>1224</b>	<b>1.81</b>	1449	<b>1547</b>	<b>2.22</b>	11.31	Ld	
 MLT12RR	123B2547	10.70	1/2	HMBP	F	115-127V 60Hz	CSR	R	C-V	463	736	<b>1560</b>	<b>1.75</b>	1825	<b>1961</b>	<b>2.15</b>	11.96	Ld	
 MPT14RD	123B2544	14.32	1/2	HBP	F	115V 60Hz	CSR	R	C-V	-	929	<b>1990</b>	<b>1.56</b>	2351	<b>2512</b>	<b>1.91</b>	12.67	Pd	
MX16TE	123B2548	16.03	7/8	HMBP	F	115V 60Hz	CSR	R	C-V	561	949	<b>2185</b>	<b>1.62</b>	2589	<b>2762</b>	<b>2.00</b>	17.20	Xd	
MX18TE	123B2545	18.40	7/8	HMBP	F	115V 60Hz	CSR	R	C-V	644	1090	<b>2507</b>	<b>1.62</b>	2972	<b>3170</b>	<b>2.00</b>	17.20	Xd	
ML40TG	123B2502	4.05	1/6	HMBP	F	200-240/220-230V 50/60Hz	CSIR	R	C-V	155	248	<b>553</b>	<b>1.39</b>	653	<b>698</b>	<b>1.70</b>	9.12	Lc	
ML45TG	123B2504	4.56	1/6	HMBP	F	200-240/220-230V 50/60Hz	CSIR	R	C-V	190	310	<b>672</b>	<b>1.55</b>	788	<b>846</b>	<b>1.89</b>	9.14	Lc	
 MLT45RG	123B2546	4.56	1/5	HMBP	F	200-220/230V 50/60Hz	CSR	R	C-V	192	314	<b>687</b>	<b>1.83</b>	808	<b>865</b>	<b>2.25</b>	9.75	Ld	
ML60TG	123B2508	5.68	1/4	HMBP	F	200-220/230V 50/60Hz	CSIR	R	C-V	193	323	<b>753</b>	<b>1.49</b>	896	<b>954</b>	<b>1.83</b>	10.57	Lc	
 MLY60RGa	123B2550	5.98	1/4	HMBP	F	200-220/220-230V 50/60Hz	CSIR	R	C-V	257	407	<b>883</b>	<b>1.74</b>	1039	<b>1113</b>	<b>2.14</b>	10.24	Lc	
 MLY60RGb	123B2551	5.98	1/4	HMBP	F	200-220/220-230V 50/60Hz	CSR	R	C-V	258	416	<b>897</b>	<b>1.89</b>	1051	<b>1128</b>	<b>2.33</b>	10.34	Lc	
ML80TG	123B2512	7.57	3/8	HMBP	F	200-240/220-230V 50/60Hz	CSIR	R	C-V	263	448	<b>1022</b>	<b>1.59</b>	1208	<b>1291</b>	<b>1.96</b>	11.81	Ld	
ML90TG	123B2516	8.85	3/8	HMBP	F	200-220/230V 50/60Hz	CSIR	R	C-V	329	539	<b>1227</b>	<b>1.54</b>	1454	<b>1551</b>	<b>1.89</b>	11.29	Ld	
 MLT12RG	123B2532	10.70	3/8	HMBP	F	200-240/220-230V 50/60Hz	CSR	R	C-V	441	702	<b>1553</b>	<b>1.75</b>	1833	<b>1960</b>	<b>2.16</b>	12.24	Ld	
 MPT12RG	123B2703	12.10	3/8	HBP	F	200-220/220-230V 50/60Hz	CSR	R	C-V	-	795	<b>1725</b>	<b>1.79</b>	2043	<b>2179</b>	<b>2.22</b>	12.89	Pd	
 MPT14RF	123B2543	14.32	1/2	HBP	F	208-230V 60Hz	CSR	R	C-V	-	929	<b>1990</b>	<b>1.56</b>	2351	<b>2512</b>	<b>1.91</b>	12.67	Pd	
MX18TGa	123B2541	18.40	7/8	HMBP	F	200-220/220-230V 50/60Hz	CSR	R	C-V	644	1090	<b>2507</b>	<b>1.74</b>	2972	<b>3170</b>	<b>2.15</b>	16.24	Xd	
MX21TGa	123B2714	20.72	1	HMBP	F	200-220/220-230V 50/60Hz	CSR	R	C-V	726	1211	<b>2781</b>	<b>1.72</b>	3299	<b>3518</b>	<b>2.12</b>	16.74	Xd	
MS26TG	123B2556	25.93	1.375	HMBP	F	200-220/230V 50/60Hz	CSR	R	C-V	785	1508	<b>3705</b>	<b>1.93</b>	4411	<b>4695</b>	<b>2.37</b>	23.00	Sd	
MS34TG	123B2718	34.42	1.625	HBP	F	200-220/230V 50/60Hz	CSR	R	C-V	-	2163	<b>4917</b>	<b>1.71</b>	5762	<b>6187</b>	<b>2.10</b>	22.78	Sd	
MS18T3	123B2552	18.10	7/8	HMBP	F	400/440V 50/60Hz	3PHASE	P	C-V	491	971	<b>2471</b>	<b>1.82</b>	2959	<b>3140</b>	<b>2.25</b>	20.00	Sc	
MS22T3	123B2554	21.75	1	HMBP	F	400/440V 50/60Hz	3PHASE	P	C-V	527	1135	<b>2995</b>	<b>1.94</b>	3595	<b>3810</b>	<b>2.40</b>	20.00	Sc	
MS26T3	123B2557	25.93	1.375	HMBP	F	400/440V 50/60Hz	3PHASE	P	C-V	785	1508	<b>3705</b>	<b>1.84</b>	4411	<b>4695</b>	<b>2.25</b>	18.60	Sd	
MS34T3	123B2558	34.42	1.625	HMBP	F	400/440V 50/60Hz	3PHASE	P	C-V	1172	2164	<b>4916</b>	<b>1.71</b>	5764	<b>6187</b>	<b>2.10</b>	22.80	Sd	

 Green Cooling Models  
 New Models  
 See design drawing on pages 40-41  
 (†) Ordering code for single compressors. For pallet packed compressors, please use 123F instead of 123B

	Conditions			
	CECOMAF		ASHRAE	
	LBP	HMBP/HBP	LBP	HMBP/HBP
Evaporating temperature °C	-25	5	-23.3	7.2
Condensing temperature °C	55	55	55	55
Liquid temperature °C	55	55	32	46
Suction temperature °C	32	32	32	35
Ambient temperature °C	32	32	32	35

**R290/R600a**



# Danfoss Light Commercial Refrigeration Compressors

## R290 LBP • 50 Hz

MODEL	DANFOSS CODE (a)	DISPLACEMENT cm <sup>3</sup>	POWER hp	APPLICATION	CPR COOLING	VOLTAGE FREQUENCY	MOTOR	STARTING	EXPANSION	REFRIGERATION CAPACITY						WEIGHT Kg	DESIGN	
										COP in W/W Evaporating Temperature °C								
										CECOMAF (W)			ASHRAE					
										-40	-30	-25	-10	-23.3				
		W	COP		W	COP												
NBC25CA	123B8301	2.60	1/14	LMBP	S	220-240V 50Hz	RSIR	P	C	40	56	<b>76</b>	<b>1.01</b>	159	<b>104</b>	<b>1.33</b>	5.46	Be
NBC30NG	123B8312	3.10	1/12	LMBP	S/F	220-240V 50/60Hz	CSIR	P	C-V	52	73	<b>98</b>	<b>1.06</b>	195	<b>135</b>	<b>1.39</b>	6.42	Bf
NBC35NA	123B8303	3.50	1/12	LMBP	S	220-240V 50Hz	RSIR	P	C	57	79	<b>106</b>	<b>1.04</b>	211	<b>143</b>	<b>1.35</b>	6.20	Bf
NBC41NA	123B8305	4.10	1/8	LMBP	S	220-240V 50Hz	CSIR	P	C-V	72	102	<b>136</b>	<b>0.99</b>	272	<b>185</b>	<b>1.29</b>	6.10	Bf
NUT40NA	125B3388	4.00	1/8	LMBP	S/F	220-240V 50Hz	RSCR	P	C	63	114	<b>148</b>	<b>1.29</b>	284	<b>190</b>	<b>1.72</b>	9.10	Ub
NUC45NGa	125B3329	4.50	1/8	LMBP	F	200-220/230V 50/60Hz	RSIR	P	C	68	120	<b>157</b>	<b>1.05</b>	304	<b>210</b>	<b>1.35</b>	9.10	Ub
NUC45NGb	125B3330	4.50	1/8	LMBP	F	200-220/230V 50/60Hz	RSCR	P	C	68	120	<b>157</b>	<b>1.10</b>	304	<b>210</b>	<b>1.43</b>	9.20	Ub
NUY45LAa	125B3160	4.50	1/8	LBP	F	220-240V 50Hz	CSIR	R	C-V	65	122	<b>159</b>	<b>1.21</b>	306	<b>214</b>	<b>1.57</b>	9.30	Ub
NUY45Lab	125B3161	4.50	1/8	LBP	F	220-240V 50Hz	CSR	R	C-V	66	123	<b>161</b>	<b>1.26</b>	311	<b>216</b>	<b>1.64</b>	9.45	Ub
NUS45NA(*)	125B3355	4.50	1/8	LMBP	F	220-240V 50Hz	RSCR	P	C	69	129	<b>169</b>	<b>1.44</b>	326	<b>225</b>	<b>1.88</b>	8.60	Ub
NUM55CAa	125B3189	5.50	1/6	LBP	S/F	220-240V 50Hz	RSIR	P	C	79	147	<b>193</b>	<b>1.11</b>	373	<b>260</b>	<b>1.45</b>	8.30	Ub
NUM55CAb	125B3356	5.50	1/6	LMBP	S/F	220-240V 50Hz	RSCR	P	C	79	147	<b>193</b>	<b>1.19</b>	373	<b>260</b>	<b>1.55</b>	8.30	Ub
NUM55CAc	125B3190	5.50	1/6	LBP	S/F	220-240V 50Hz	CSIR	R	C-V	79	147	<b>193</b>	<b>1.11</b>	373	<b>260</b>	<b>1.45</b>	8.30	Ub
NUM55CAd	125B3357	5.50	1/6	LMBP	S/F	220-240V 50Hz	CSR	R	C-V	79	147	<b>193</b>	<b>1.19</b>	373	<b>260</b>	<b>1.55</b>	8.30	Ub
NUT55CAa	125B3152	5.50	1/6	LBP	F	220-240V 50Hz	RSIR	P	C	88	152	<b>196</b>	<b>1.27</b>	382	<b>264</b>	<b>1.64</b>	9.10	Ub
NUT55CAb	125B3153	5.50	1/6	LBP	F	220-240V 50Hz	RSCR	P	C	88	152	<b>196</b>	<b>1.39</b>	382	<b>264</b>	<b>1.80</b>	9.21	Ub
NUT55CAc	125B3158	5.50	1/6	LBP	S	220-240V 50Hz	RSIR	P	C	88	152	<b>196</b>	<b>1.27</b>	382	<b>264</b>	<b>1.64</b>	9.10	Ub
NUT55CAd	125B3159	5.50	1/6	LBP	S	220-240V 50Hz	RSCR	P	C	88	152	<b>196</b>	<b>1.39</b>	382	<b>264</b>	<b>1.80</b>	9.21	Ub
NUT55CAe	125B3181	5.50	1/6	LBP	F	220-240V 50Hz	CSIR	P	C-V	88	152	<b>196</b>	<b>1.27</b>	382	<b>264</b>	<b>1.64</b>	9.10	Ub
NUT55NA	125B3358	5.50	1/6	LMBP	S/F	220-240V 50Hz	RSCR	P	C	100	176	<b>225</b>	<b>1.50</b>	417	<b>260</b>	<b>1.72</b>	9.10	Ub
NUC55NGa	125B3359	5.50	1/6	LMBP	F	200-220/230V 50/60Hz	RSIR	P	C	89	154	<b>198</b>	<b>1.04</b>	386	<b>265</b>	<b>1.35</b>	8.60	Ub
NUC55NGc	125B3360	5.50	1/6	LMBP	F	200-220/230V 50/60Hz	CSIR	R	C-V	89	154	<b>198</b>	<b>1.04</b>	386	<b>265</b>	<b>1.35</b>	8.60	Ub
NUS55NA(*)	125B3361	5.50	1/6	LMBP	F	220-240V 50Hz	RSCR	P	C	79	147	<b>193</b>	<b>1.46</b>	373	<b>260</b>	<b>1.90</b>	9.10	Ub
NUM60CAa	125B3191	6.00	1/6	LBP	S/F	220-240V 50Hz	RSIR	P	C	98	170	<b>219</b>	<b>1.11</b>	427	<b>295</b>	<b>1.45</b>	8.30	Ub
NUM60CAb	125B3362	6.00	1/6	LMBP	S/F	220-240V 50Hz	RSCR	P	C	98	170	<b>219</b>	<b>1.19</b>	427	<b>295</b>	<b>1.55</b>	8.30	Ub
NUM60CAc	125B3192	6.00	1/6	LBP	S/F	220-240V 50Hz	CSIR	R	C-V	98	170	<b>219</b>	<b>1.11</b>	427	<b>295</b>	<b>1.45</b>	8.30	Ub
NUM60CAd	125B3363	6.00	1/6	LMBP	S/F	220-240V 50Hz	CSR	R	C-V	98	170	<b>219</b>	<b>1.19</b>	427	<b>295</b>	<b>1.55</b>	8.30	Ub
NUT60CAa	125B3154	6.00	1/6	LBP	F	220-240V 50Hz	RSIR	P	C	101	175	<b>226</b>	<b>1.30</b>	431	<b>304</b>	<b>1.68</b>	9.20	Ub
NUT60CAb	125B3155	6.00	1/6	LBP	F	220-240V 50Hz	RSCR	P	C	101	175	<b>226</b>	<b>1.41</b>	431	<b>304</b>	<b>1.82</b>	9.31	Ub
NUT60CAc	125B3162	6.00	1/6	LBP	S	220-240V 50Hz	RSIR	P	C	101	175	<b>226</b>	<b>1.30</b>	431	<b>304</b>	<b>1.68</b>	9.20	Ub
NUT60CAd	125B3163	6.00	1/6	LBP	S	220-240V 50Hz	RSCR	P	C	101	175	<b>226</b>	<b>1.41</b>	431	<b>304</b>	<b>1.82</b>	9.31	Ub
NUT60CAe	125B3182	6.00	1/6	LBP	F	220-240V 50Hz	CSIR	P	C-V	101	175	<b>226</b>	<b>1.30</b>	431	<b>304</b>	<b>1.68</b>	9.20	Ub
NUT60NA	125B3364	6.00	1/6	LMBP	S/F	220-240V 50Hz	RSCR	P	C	107	182	<b>232</b>	<b>1.30</b>	432	<b>295</b>	<b>1.72</b>	9.10	Ub
NUS60NA(*)	125B3365	6.00	1/6	LMBP	F	220-240V 50Hz	RSCR	P	C	98	170	<b>219</b>	<b>1.46</b>	427	<b>295</b>	<b>1.90</b>	9.31	Ub
NUY60NGa	125B3339	6.00	1/6	LMBP	F	220-240V 50Hz	CSIR	R	C-V	125	164	<b>213</b>	<b>1.10</b>	411	<b>295</b>	<b>1.43</b>	9.40	Ud
NUY60NGb	125B3340	6.00	1/6	LMBP	F	220-240V 50Hz	CSR	R	C-V	127	168	<b>217</b>	<b>1.21</b>	416	<b>295</b>	<b>1.57</b>	9.50	Ud
NUY60NGd	125B3341	6.00	1/6	LMBP	S	220-240V 50Hz	CSR	R	C-V	118	158	<b>206</b>	<b>1.14</b>	405	<b>280</b>	<b>1.49</b>	9.50	Ud
NUM70CAa	125B3193	6.70	1/5	LBP	F	220-240V 50Hz	RSIR	P	C	103	186	<b>241</b>	<b>1.11</b>	462	<b>325</b>	<b>1.45</b>	8.60	Ub
NUM70CAb	125B3366	6.70	1/5	LMBP	F	220-240V 50Hz	RSCR	P	C	103	186	<b>241</b>	<b>1.19</b>	462	<b>325</b>	<b>1.55</b>	8.60	Ub
NUM70CAc	125B3194	6.70	1/5	LBP	F	220-240V 50Hz	CSIR	R	C-V	103	186	<b>241</b>	<b>1.11</b>	462	<b>325</b>	<b>1.45</b>	8.60	Ub
NUM70CAd	125B3367	6.70	1/5	LMBP	F	220-240V 50Hz	CSR	R	C-V	103	186	<b>241</b>	<b>1.19</b>	462	<b>325</b>	<b>1.55</b>	8.60	Ub
NUT70CAa	125B3156	6.70	1/5	LBP	F	220-240V 50Hz	RSIR	P	C	109	195	<b>250</b>	<b>1.30</b>	463	<b>335</b>	<b>1.68</b>	9.20	Ub
NUT70CAb	125B3157	6.70	1/5	LBP	F	220-240V 50Hz	RSCR	P	C	109	195	<b>250</b>	<b>1.39</b>	463	<b>335</b>	<b>1.80</b>	9.41	Ub
NUT70CAc	125B3171	6.70	1/5	LBP	S	220-240V 50Hz	RSIR	P	C	109	195	<b>250</b>	<b>1.30</b>	463	<b>335</b>	<b>1.68</b>	9.20	Ub
NUT70CAd	125B3172	6.70	1/5	LBP	S	220-240V 50Hz	RSCR	P	C	109	195	<b>250</b>	<b>1.39</b>	463	<b>335</b>	<b>1.80</b>	9.41	Ub
NUT70CAe	125B3183	6.70	1/5	LBP	F	220-240V 50Hz	CSIR	P	C-V	109	195	<b>250</b>	<b>1.30</b>	463	<b>335</b>	<b>1.68</b>	9.20	Ub

Green Cooling Models

New Models

(\*) Model under development. Provisional performance/data.








































See design drawing on pages 40-41

(a) Ordering code for single compressors. For pallet packed compressors, please use 123F instead of 123B


This table continues in the following page

## Danfoss Light Commercial Refrigeration Compressors

### R290 LBP • 50 Hz

MODEL	DANFOSS CODE (#)	DISPLACEMENT cm <sup>3</sup>	POWER hp	APPLICATION	CPR COOLING	VOLTAGE FREQUENCY	MOTOR	STARTING	EXPANSION	REFRIGERATION CAPACITY								WEIGHT Kg	DESIGN
										COP in W/W Evaporating Temperature °C									
										CECOMAF (W)				ASHRAE					
										-40	-30	-25		-10	-23.3				
		W	COP		W	COP													
 NUT70NA	125B3368	6.70	1/5	LMBP	F	220-240V 50Hz	RSCR	P	C	110	185	<b>238</b>	<b>1.31</b>	458	<b>325</b>	<b>1.72</b>	9.60	Ud	
 NUS70CA(*)	125B3369	6.70	1/5	LMBP	F	220-240V 50Hz	RSCR	P	C	107	187	<b>241</b>	<b>1.44</b>	463	<b>325</b>	<b>1.88</b>	9.20	Uc	
 NUC70NGa	125B3370	6.70	1/5	LMBP	F	200-220/220-230V 50/60Hz	RSIR	P	C	106	190	<b>243</b>	<b>1.09</b>	450	<b>325</b>	<b>1.41</b>	8.80	Ub	
 NUC70NGb	125B3371	6.70	1/5	LMBP	F	200-220/220-230V 50/60Hz	CSIR	R	C-V	106	190	<b>243</b>	<b>1.16</b>	450	<b>325</b>	<b>1.50</b>	8.80	Ub	
 NUM80CA	125B3195	8.10	1/4	LBP	F	220-240V 50Hz	RSIR	P	C	139	238	<b>303</b>	<b>1.16</b>	560	<b>400</b>	<b>1.40</b>	8.60	Ud	
 NUM80LAa	125B3196	8.10	1/4	LBP	F	220-240V 50Hz	CSIR	R	C-V	134	231	<b>297</b>	<b>1.11</b>	561	<b>400</b>	<b>1.45</b>	8.80	Ub	
 NUM80LAb	125B3372	8.10	1/4	LMBP	F	220-240V 50Hz	CSR	R	C-V	134	231	<b>297</b>	<b>1.19</b>	561	<b>400</b>	<b>1.55</b>	8.80	Ub	
 NUT80NA	125B3373	8.10	1/4	LMBP	F	220-240V 50Hz	CSR	R	C-V	134	231	<b>297</b>	<b>1.31</b>	561	<b>400</b>	<b>1.70</b>	9.60	Ue	
 NUY80NGa	125B3331	8.10	1/4	LMBP	F	200-240/230V 50/60Hz	CSIR	R	C-V	185	238	<b>303</b>	<b>1.13</b>	568	<b>405</b>	<b>1.46</b>	9.85	Ud	
 NUY80NGb	125B3342	8.10	1/4	LMBP	F	200-240/230V 50/60Hz	CSR	R	C-V	185	238	<b>303</b>	<b>1.21</b>	568	<b>405</b>	<b>1.56</b>	9.95	Ud	
 NUM90LA	125B3197	8.90	1/4	LBP	F	220-240V 50Hz	CSR	R	C-V	155	261	<b>331</b>	<b>1.19</b>	609	<b>440</b>	<b>1.55</b>	9.30	Uc	
 NUY90CAa	125B3173	8.90	1/4	LBP	F	220-240V 50Hz	RSIR	P	C	157	267	<b>338</b>	<b>1.21</b>	614	<b>451</b>	<b>1.55</b>	9.30	Uc	
 NUY90CAb	125B3174	8.90	1/4	LBP	F	220-240V 50Hz	RSCR	P	C	158	270	<b>342</b>	<b>1.28</b>	625	<b>457</b>	<b>1.64</b>	9.40	Uc	
 NUY90LAa	125B3170	8.90	1/4	LBP	F	220-240V 50Hz	CSIR	R	C-V	157	267	<b>338</b>	<b>1.21</b>	614	<b>451</b>	<b>1.55</b>	9.40	Uc	
 NUY90LAb	123B3177	8.90	1/4	LBP	F	220-240V 50Hz	CSR	R	C-V	158	270	<b>342</b>	<b>1.28</b>	625	<b>457</b>	<b>1.64</b>	9.50	Uc	
 NUM90NA	125B3374	8.90	1/4	LMBP	F	220-240V 50Hz	RSCR	P	C	155	256	<b>327</b>	<b>1.17</b>	617	<b>430</b>	<b>1.50</b>	9.60	Ue	
 NUT90LA	125B3198	8.90	1/4	LBP	F	220-240V 50Hz	CSR	R	C-V	159	262	<b>335</b>	<b>1.37</b>	631	<b>440</b>	<b>1.76</b>	9.60	Uc	
 NUT90NA	125B3343	8.90	1/4	LMBP	F	220-240V 50Hz	CSR	R	C-V	159	262	<b>335</b>	<b>1.33</b>	631	<b>440</b>	<b>1.70</b>	9.80	Ue	
 NUY90NGa	125B3333	8.90	1/4	LMBP	F	200-220/230V 50/60Hz	CSIR	R	C-V	148	251	<b>322</b>	<b>1.12</b>	613	<b>430</b>	<b>1.45</b>	9.80	Ud	
 NUY90NGb	125B3334	8.90	1/4	LMBP	F	200-220/230V 50/60Hz	CSR	R	C-V	148	251	<b>322</b>	<b>1.21</b>	613	<b>430</b>	<b>1.55</b>	9.80	Ud	
 NUG100NAa	125B3344	10.50	1/4	LMBP	F	220-240V 50Hz	CSIR	R	C-V	208	279	<b>362</b>	<b>1.12</b>	695	<b>487</b>	<b>1.45</b>	12.30	Ue	
 NUG100NAb	125B3345	10.50	1/4	LMBP	F	220-240V 50Hz	CSR	R	C-V	208	279	<b>362</b>	<b>1.20</b>	695	<b>488</b>	<b>1.56</b>	12.40	Ue	
 NUG100NGa(*)	125B3382	10.50	1/4	LMBP	F	200-220/230V 50/60Hz	CSIR	R	C-V	208	279	<b>362</b>	<b>1.12</b>	695	<b>487</b>	<b>1.45</b>	12.30	U+b	
 NUG100NGb(*)	125B3383	10.50	1/4	LMBP	F	200-220/230V 50/60Hz	CSR	R	C-V	208	279	<b>362</b>	<b>1.20</b>	695	<b>488</b>	<b>1.56</b>	12.40	U+b	
 NUY120NAa	125B3346	12.50	3/8	LMBP	F	220-240V 50Hz	CSIR	R	C-V	250	335	<b>435</b>	<b>1.08</b>	835	<b>585</b>	<b>1.41</b>	12.40	U+b	
 NUY120NAb	125B3347	12.50	3/8	LMBP	F	220-240V 50Hz	CSR	R	C-V	250	335	<b>435</b>	<b>1.17</b>	835	<b>585</b>	<b>1.52</b>	12.50	U+b	
 NUY120NGa(*)	125B3384	12.50	3/8	LMBP	F	200-220/230V 50/60Hz	CSIR	R	C-V	250	335	<b>435</b>	<b>1.08</b>	835	<b>585</b>	<b>1.41</b>	12.40	U+b	
 NUY120NGb(*)	125B3385	12.50	3/8	LMBP	F	200-220/230V 50/60Hz	CSR	R	C-V	250	335	<b>435</b>	<b>1.17</b>	835	<b>585</b>	<b>1.52</b>	12.50	U+b	
 NUY140LAa	125B3184	14.20	1/2	LMBP	F	220-240V 50Hz	CSIR	R	C-V	288	386	<b>501</b>	<b>1.10</b>	962	<b>670</b>	<b>1.41</b>	12.34	U+b	
 NUY140LAb	125B3185	14.20	1/2	LMBP	F	220-240V 50Hz	CSR	R	C-V	296	397	<b>515</b>	<b>1.23</b>	989	<b>680</b>	<b>1.59</b>	12.44	U+b	
 NUG140NGa(*)	125B3386	14.20	1/2	LMBP	F	200-220/230V 50/60Hz	CSIR	R	C-V	288	386	<b>501</b>	<b>1.10</b>	962	<b>670</b>	<b>1.41</b>	12.34	U+b	
 NUG140NGb(*)	125B3387	14.20	1/2	LMBP	F	200-220/230V 50/60Hz	CSR	R	C-V	296	397	<b>515</b>	<b>1.23</b>	989	<b>680</b>	<b>1.59</b>	12.44	U+b	
 NPT16LA	123B3124	16.15	1/2	LBP	F	220-240V 50Hz	CSR	R	C-V	254	440	<b>564</b>	<b>1.16</b>	1062	<b>756</b>	<b>1.50</b>	12.17	Pd	
 NPT18LA	123B3125	18.00	2/3	LBP	F	220-240V 50Hz	CSR	R	C-V	269	473	<b>611</b>	<b>1.13</b>	1165	<b>820</b>	<b>1.46</b>	12.30	Pd	
 NX21FBa	123B3127	20.72	2/3	LBP	F	220-240V 50Hz	CSR	R	C-V	267	517	<b>675</b>	<b>1.11</b>	1275	<b>907</b>	<b>1.44</b>	16.99	Xd	
 NX23FBa	123B3128	23.20	3/4	LBP	F	220-240V 50Hz	CSR	R	C-V	297	572	<b>746</b>	<b>1.09</b>	1411	<b>1003</b>	<b>1.41</b>	16.75	Xd	
 NST26NA	123B3177	25.93	3/4	LBP	F	220-240V 50Hz	CSR	R	C-V	370	537	<b>743</b>	<b>1.14</b>	1601	<b>1018</b>	<b>1.49</b>	21.60	Sd	
 NST30NG	123B3325	29.95	7/8	LBP	F	200-220/220-230V 50/60Hz	CSR	R	C-V	456	649	<b>890</b>	<b>1.03</b>	1897	<b>1215</b>	<b>1.35</b>	21.80	Sd	
 NST34LA	123B3175	34.42	1	LBP	F	220-240V 50Hz	CSR	R	C-V	657	878	<b>1143</b>	<b>1.19</b>	2210	<b>1539</b>	<b>1.53</b>	23.00	Sd	
 NST38NA	123B3324	38.00	1 1/2	LMHBP	F	220-240V 50Hz	CSR	R	C-V	734	1000	<b>1315</b>	<b>1.18</b>	2558	<b>1774</b>	<b>1.53</b>	23.00	Sd	

 Green Cooling Models

 New Models










































(\*) Model under development. Provisional performance/data.

See design drawing on pages 40-41

(#) Ordering code for single compressors. For pallet packed compressors, please use 123F instead of 123B

# Danfoss Light Commercial Refrigeration Compressors

## R290 LBP | LMBP • 60 Hz

MODEL	DANFOSS CODE (α)	DISPLACEMENT cm <sup>3</sup>	POWER hp	APPLICATION	CPR COOLING	VOLTAGE FREQUENCY	MOTOR	STARTING	EXPANSION	REFRIGERATION CAPACITY								WEIGHT Kg	DESIGN
										COP in W/W Evaporating Temperature °C									
										CECOMAF (W)				ASHRAE					
										-40	-30	-25		-10	-23.3				
												W	COP		W	COP			
 NBC30NR	123B8311	3.10	1/12	LMBP	S/F	115-127V 60Hz	CSIR	R	C-V	50	89	<b>118</b>	<b>1.07</b>	242	<b>159</b>	<b>1.40</b>	6.10	Bf	
 NUT35NRa	125B3327	3.50	1/12	LMBP	F	115-127V 60Hz	CSIR	R	C-V	61	107	<b>142</b>	<b>1.14</b>	290	<b>192</b>	<b>1.56</b>	9.12	Uc	
 NUT35NRb	125B3328	3.50	1/12	LMBP	F	115-127V 60Hz	CSR	R	C-V	61	107	<b>142</b>	<b>1.21</b>	290	<b>192</b>	<b>1.61</b>	9.19	Uc	
 NUT35NRc	125B3335	3.50	1/12	LMBP	F	115-127V 60Hz	RSIR	P	C	61	107	<b>142</b>	<b>1.14</b>	290	<b>192</b>	<b>1.56</b>	9.12	Uc	
 NUT35NRd	125B3336	3.50	1/12	LMBP	F	115-127V 60Hz	RSCR	P	C	61	107	<b>142</b>	<b>1.21</b>	290	<b>192</b>	<b>1.61</b>	9.19	Uc	
 NUT40NRa	125B3348	4.00	1/8	LMBP	F	115-127V 60Hz	CSIR	R	C-V	72	128	<b>169</b>	<b>1.15</b>	347	<b>229</b>	<b>1.55</b>	9.15	Uc	
 NUT40NRb	125B3349	4.00	1/8	LMBP	F	115-127V 60Hz	CSR	R	C-V	72	128	<b>169</b>	<b>1.23</b>	347	<b>229</b>	<b>1.65</b>	9.22	Uc	
 NUT40NRc	125B3337	4.00	1/8	LMBP	F	115-127V 60Hz	RSIR	P	C	72	128	<b>169</b>	<b>1.23</b>	347	<b>229</b>	<b>1.55</b>	9.22	Uc	
 NUT40NRd	125B3338	4.00	1/8	LMBP	F	115-127V 60Hz	RSCR	P	C	72	128	<b>169</b>	<b>1.23</b>	347	<b>229</b>	<b>1.65</b>	9.22	Uc	
 NUY45NRa	125B3175	4.50	1/8	LMBP	F	115-127V 60Hz	CSIR	R	C-V	76	136	<b>180</b>	<b>1.15</b>	363	<b>243</b>	<b>1.50</b>	9.12	Uc	
 NUY45NRb	125B3317	4.50	1/8	LMBP	F	115-127V 60Hz	CSR	R	C-V	73	137	<b>182</b>	<b>1.23</b>	369	<b>247</b>	<b>1.60</b>	9.19	Uc	
 NUT45NR	125B3375	4.50	1/8	LMBP	F	115-127V 60Hz	RSCR	P	C	77	144	<b>191</b>	<b>1.29</b>	389	<b>260</b>	<b>1.68</b>	9.40	Ud	
 NUT55LRa	125B3164	5.50	1/6	LBP	F	115-127V 60Hz	CSIR	R	C-V	110	189	<b>243</b>	<b>1.24</b>	460	<b>331</b>	<b>1.60</b>	9.47	Ub	
 NUT55LRb	125B3165	5.50	1/6	LMBP	F	115-127V 60Hz	CSR	R	C-V	110	193	<b>247</b>	<b>1.34</b>	463	<b>331</b>	<b>1.73</b>	9.54	Ub	
 NUT55LRc	125B3168	5.50	1/6	LBP	S	115-127V 60Hz	CSIR	R	C-V	110	189	<b>243</b>	<b>1.24</b>	460	<b>331</b>	<b>1.60</b>	9.47	Ub	
 NUT55LRd	125B3169	5.50	1/6	LBP	S	115-127V 60Hz	CSR	R	C-V	110	193	<b>247</b>	<b>1.34</b>	463	<b>331</b>	<b>1.73</b>	9.54	Ub	
 NUY55NRa	125B3376	5.50	1/6	LMBP	F	115-127V 60Hz	CSIR	R	C-V	105	184	<b>235</b>	<b>1.21</b>	441	<b>312</b>	<b>1.55</b>	9.10	Ub	
 NUY55NRc	125B3377	5.50	1/6	LMBP	S	115-127V 60Hz	CSIR	R	C-V	105	184	<b>235</b>	<b>1.21</b>	441	<b>312</b>	<b>1.50</b>	9.10	Ub	
 NUT60LRa	123B3186	6.00	1/6	LMBP	F	115-127V 60Hz	CSIR	R	C-V	122	207	<b>266</b>	<b>1.24</b>	508	<b>357</b>	<b>1.60</b>	9.40	Ub	
 NUT60LRb	123B3187	6.00	1/6	LMBP	F	115-127V 60Hz	CSR	R	C-V	122	213	<b>273</b>	<b>1.34</b>	513	<b>366</b>	<b>1.73</b>	9.50	Ub	
 NUT60LRc	125B3166	6.00	1/6	LMBP	S	115-127V 60Hz	CSIR	R	C-V	122	207	<b>266</b>	<b>1.24</b>	508	<b>357</b>	<b>1.60</b>	9.40	Ub	
 NUT60LRd	125B3167	6.00	1/6	LMBP	S	115-127V 60Hz	CSR	R	C-V	122	213	<b>273</b>	<b>1.34</b>	513	<b>366</b>	<b>1.73</b>	9.50	Ub	
 NUY60NGa	125B3339	6.00	1/6	LMBP	F	220-240V 50Hz	CSIR	R	C-V	149	196	<b>253</b>	<b>1.14</b>	492	<b>340</b>	<b>1.48</b>	9.40	Ud	
 NUY60NGb	125B3340	6.00	1/6	LMBP	F	220-240V 50Hz	CSR	R	C-V	149	196	<b>253</b>	<b>1.24</b>	492	<b>340</b>	<b>1.61</b>	9.50	Ud	
 NUY60NGd	125B3341	6.00	1/6	LMBP	S	220-240V 50Hz	CSR	R	C-V	142	188	<b>244</b>	<b>1.18</b>	483	<b>330</b>	<b>1.54</b>	9.50	Ud	
 NUY70NRa	125B3318	6.70	1/5	LMBP	F	115-127V 60Hz	CSIR	R	C-V	129	231	<b>297</b>	<b>1.22</b>	551	<b>398</b>	<b>1.57</b>	9.40	Uc	
 NUY70NRb	125B3321	6.70	1/5	LMBP	F	115-127V 60Hz	CSR	R	C-V	129	231	<b>297</b>	<b>1.30</b>	551	<b>398</b>	<b>1.68</b>	9.40	Uc	
 NUY70NRc	125B3319	6.70	1/5	LMBP	S	115-127V 60Hz	CSIR	R	C-V	129	231	<b>297</b>	<b>1.22</b>	551	<b>398</b>	<b>1.57</b>	9.40	Uc	
 NUY70NRd	125B3322	6.70	1/5	LMBP	S	115-127V 60Hz	CSR	R	C-V	129	231	<b>297</b>	<b>1.30</b>	551	<b>398</b>	<b>1.68</b>	9.40	Uc	
 NUY80NRa	125B3323	8.10	1/4	LMBP	F	115-127V 60Hz	CSIR	R	C-V	154	272	<b>363</b>	<b>1.29</b>	703	<b>476</b>	<b>1.58</b>	9.30	Uc	
 NUY80NRb	125B3324	8.10	1/4	LMBP	F	115-127V 60Hz	CSR	R	C-V	154	272	<b>363</b>	<b>1.37</b>	703	<b>476</b>	<b>1.67</b>	9.30	Uc	
 NUY90NRa	125B3314	8.90	1/4	LMBP	F	115-127V 60Hz	CSIR	R	C-V	167	300	<b>391</b>	<b>1.21</b>	767	<b>528</b>	<b>1.55</b>	9.40	Uc	
 NUY90NRb	125B3320	8.90	1/4	LMBP	F	115-127V 60Hz	CSR	R	C-V	167	300	<b>391</b>	<b>1.29</b>	767	<b>528</b>	<b>1.65</b>	9.40	Uc	
 NUT90LR	125B3199	8.90	1/4	LBP	F	115-127V/60Hz	CSR	R	C-V	167	300	<b>391</b>	<b>1.34</b>	767	<b>528</b>	<b>1.72</b>	9.50	Uc	
 NUG100NR	125B3378	10.50	1/4	LMBP	F	115-127V 60Hz	CSR	R	C-V	165	281	<b>360</b>	<b>1.30</b>	685	<b>570</b>	<b>1.65</b>	12.40	Ue	
 NPY12LRa	123B3137	12.10	3/8	LBP	F	115-127V 60Hz	CSIR	R	C-V	199	362	<b>473</b>	<b>1.04</b>	927	<b>637</b>	<b>1.35</b>	11.77	Pd	
 NPY12LRb	123B3138	12.10	3/8	LBP	F	115-127V 60Hz	CSR	R	C-V	199	362	<b>473</b>	<b>1.11</b>	927	<b>637</b>	<b>1.44</b>	11.87	Pd	
 NUY120NRa(*)	125B3379	12.50	3/8	LMBP	F	115-127V 60Hz	CSIR	R	C-V	203	345	<b>442</b>	<b>1.23</b>	841	<b>700</b>	<b>1.55</b>	12.40	U+b	
 NUY120NRb(*)	125B3380	12.50	3/8	LMBP	F	115-127V 60Hz	CSR	R	C-V	203	345	<b>442</b>	<b>1.30</b>	841	<b>700</b>	<b>1.65</b>	12.50	U+b	
 NPT14ND	123B3328	14.32	1/2	LMBP	F	115V 60Hz	CSR	R	C-V	251	434	<b>562</b>	<b>1.08</b>	1095	<b>756</b>	<b>1.40</b>	12.20	Pd	
 NPT16LR	123B3165	16.10	1/2	LBP	F	115-127V 60Hz	CSR	R	C-V	288	492	<b>637</b>	<b>1.10</b>	1244	<b>857</b>	<b>1.42</b>	12.70	Pd	

This table continues in the following page

 Green Cooling Models  
 New Models









(\*) Model under development. Provisional performance/data.

See design drawing on pages 40-41


(α) Ordering code for single compressors. For pallet packed compressors, please use 123F instead of 123B

## Danfoss Light Commercial Refrigeration Compressors

### R290 LBP | LMBP • 60 Hz

MODEL	DANFOSS CODE (α)	DISPLACEMENT cm <sup>3</sup>	POWER hp	APPLICATION	CPR COOLING	VOLTAGE FREQUENCY	MOTOR	STARTING	EXPANSION	REFRIGERATION CAPACITY								WEIGHT Kg	DESIGN
										COP in W/W Evaporating Temperature °C									
										CECOMAF (W)				ASHRAE					
										-40	-30	-25		-10	-23.3				
												W	COP		W	COP			
 NBC30NG	123B8312	3.10	1/12	LMHBP	S/F	220-240V 50/60Hz	CSIR	R	C-V	52	92	<b>122</b>	<b>1.10</b>	250	<b>165</b>	<b>1.42</b>	6.42	Bf	
 NUC45NGa	125B3329	4.50	1/8	LMBP	F	200-220/230V 50/60Hz	RSIR	P	C	75	141	<b>187</b>	<b>1.11</b>	381	<b>252</b>	<b>1.45</b>	9.11	Ub	
 NUC45NGb	125B3330	4.50	1/8	LMBP	F	200-220/230V 50/60Hz	RSCR	P	C	75	141	<b>187</b>	<b>1.14</b>	381	<b>252</b>	<b>1.49</b>	9.21	Ub	
 NUT55NU	125B3381	5.50	1/6	LMBP	F	220-240V 60Hz	RSCR	R	C	116	195	<b>250</b>	<b>1.29</b>	475	<b>325</b>	<b>1.70</b>	9.40	Ub	
 NUC55NGa	125B3359	5.50	1/6	LMBP	F	200-220/230V 50/60Hz	RSIR	P	C	106	186	<b>237</b>	<b>1.15</b>	445	<b>314</b>	<b>1.48</b>	8.60	Ub	
 NUC55NGc	125B3360	5.50	1/6	LMBP	F	200-220/230V 50/60Hz	CSIR	R	C-V	106	186	<b>237</b>	<b>1.15</b>	445	<b>314</b>	<b>1.48</b>	8.60	Ub	
 NUC70NGa	125B3370	6.70	1/5	LMBP	F	200-220/220-230V 50/60Hz	CSIR	R	C-V	127	228	<b>294</b>	<b>1.17</b>	542	<b>393</b>	<b>1.51</b>	8.95	Uc	
 NUC70NGb	125B3371	6.70	1/5	LMBP	F	200-220/220-230V 50/60Hz	CSR	R	C-V	127	228	<b>294</b>	<b>1.23</b>	542	<b>393</b>	<b>1.58</b>	8.95	Uc	
 NUY80NGa	125B3331	8.10	1/4	LMBP	F	200-220/230V 50/60Hz	CSIR	R	C-V	223	286	<b>363</b>	<b>1.24</b>	673	<b>485</b>	<b>1.50</b>	9.85	Ud	
 NUY80NGb	125B3342	8.10	1/4	LMBP	F	200-220/230V 50/60Hz	CSR	R	C-V	223	286	<b>363</b>	<b>1.32</b>	673	<b>485</b>	<b>1.60</b>	9.95	Ud	
 NUY90LFa	125B3178	8.90	1/4	LMBP	F	208-230V 60Hz	CSIR	R	C-V	168	297	<b>383</b>	<b>1.10</b>	724	<b>514</b>	<b>1.42</b>	9.28	Uc	
 NUY90NGa	125B3333	8.90	1/4	LMBP	F	200-220/230V 50/60Hz	CSIR	R	C-V	148	251	<b>322</b>	<b>1.03</b>	613	<b>510</b>	<b>1.50</b>	9.80	Ud	
 NUY90NGb	125B3334	8.90	1/4	LMBP	F	200-220/230V 50/60Hz	CSR	R	C-V	148	251	<b>322</b>	<b>1.21</b>	613	<b>510</b>	<b>1.60</b>	9.80	Ud	
 NUG100NGa(*)	125B3382	10.50	1/4	LMBP	F	200-220/230V 50/60Hz	CSIR	R	C-V	165	281	<b>360</b>	<b>1.23</b>	685	<b>570</b>	<b>1.55</b>	12.30	Ue	
 NUG100NGb(*)	125B3383	10.50	1/4	LMBP	F	200-220/230V 50/60Hz	CSR	R	C-V	165	281	<b>360</b>	<b>1.30</b>	685	<b>570</b>	<b>1.65</b>	12.40	Ue	
 NUY120NGa(*)	125B3384	12.50	3/8	LMBP	F	200-220/230V 50/60Hz	CSIR	R	C-V	203	345	<b>442</b>	<b>1.23</b>	841	<b>700</b>	<b>1.55</b>	12.40	U+b	
 NUY120NGb(*)	125B3385	12.50	3/8	LMBP	F	200-220/230V 50/60Hz	CSR	R	C-V	203	345	<b>442</b>	<b>1.30</b>	841	<b>700</b>	<b>1.65</b>	12.50	U+b	
 NPY14LFa	123B3139	14.32	1/2	LBP	F	208-230V 60Hz	CSIR	R	C-V	269	466	<b>603</b>	<b>1.04</b>	1175	<b>812</b>	<b>1.34</b>	12.19	Pd	
 NPY14LFb	123B3140	14.32	1/2	LBP	F	208-230V 60Hz	CSR	R	C-V	269	466	<b>603</b>	<b>1.09</b>	1175	<b>812</b>	<b>1.42</b>	12.29	Pd	
 NUG140NGa(*)	125B3386	14.20	1/2	LMBP	F	200-220/230V 50/60Hz	CSIR	R	C-V	238	404	<b>518</b>	<b>1.23</b>	820	<b>820</b>	<b>1.55</b>	12.34	U+b	
 NUG140NGb(*)	125B3387	14.20	1/2	LMBP	F	200-220/230V 50/60Hz	CSR	R	C-V	238	404	<b>518</b>	<b>1.30</b>	820	<b>820</b>	<b>1.65</b>	12.44	U+b	
 NPT16NF	123B3326	16.10	1/2	LMBP	F	208-230V 60Hz	CSR	R	C-V	381	498	<b>644</b>	<b>1.07</b>	1253	<b>866</b>	<b>1.39</b>	12.15	Pd	
 NST30NG	123B3325	29.95	7/8	LBP	F	200-220/220-230V 50/60Hz	CSR	R	C-V	527	755	<b>1041</b>	<b>1.05</b>	2250	<b>1425</b>	<b>1.37</b>	21.80	Sd	

 Green Cooling Models

 New Models

(\*) Model under development. Provisional performance/data.

See design drawing on pages 40-41

(α) Ordering code for single compressors. For pallet packed compressors, please use 123F instead of 123B

Danfoss Light Commercial Refrigeration Compressors

R290 HMBP | HBP • 50 Hz

Natural Refrigerant

MODEL	DANFOSS CODE (†)	DISPLACEMENT cm <sup>3</sup>	POWER hp	APPLICATION	CPR COOLING	VOLTAGE FREQUENCY	MOTOR	STARTING	EXPANSION	REFRIGERATION CAPACITY								WEIGHT Kg	DESIGN
										COP in W/W Evaporating Temperature °C									
										CECOMAF (W)					ASHRAE				
										-25	-15	5		10	7.2				
												W	COP		W	COP			
NBC22RA	123B8309	2.20	1/120	HMBP	F	220-240V 50Hz	CSIR	R	C-V	54	93	222	1.87	264	265	2.21	5.20	Bc	
NBC30RA	123B8310	3.10	1/12	HMBP	F	220-240V 50Hz	CSIR	R	C-V	100	157	354	2.21	421	423	2.61	5.80	Be	
NUY45RAa	125B3704	4.50	1/8	HMBP	F	220-240V 50Hz	CSIR	R	C-V	142	231	516	2.36	610	615	2.77	9.30	Ub	
NUY55RAa	125B3706	5.50	1/6	HMBP	F	220-240V 50Hz	CSIR	R	C-V	192	298	653	2.29	771	778	2.69	9.50	Ub	
NUY60RAa	125B3708	6.00	1/6	HMBP	F	220-240V 50Hz	CSIR	R	C-V	208	328	714	2.32	841	850	2.72	9.48	Ub	
NUY70RAa	125B3513	6.70	1/5	HMBP	F	220-240V 50Hz	CSIR	R	C-V	248	382	817	2.34	961	972	2.75	9.60	Uc	
NUY70RAB	125B3514	6.70	1/5	HMBP	F	220-240V 50Hz	CSR	R	C-V	248	382	817	2.47	961	972	2.90	9.70	Uc	
NUY80RAa	125B3515	8.10	1/4	HMBP	F	220-240V 50Hz	CSIR	R	C-V	287	456	931	2.21	1078	1100	2.60	9.43	Uc	
NUY80RAB	125B3711	8.10	1/4	HBP	F	220-240V 50Hz	CSR	R	C-V	-	456	958	2.14	1127	1140	2.71	9.53	Uc	
NUY90RAa	125B3314	8.90	1/4	HMBP	F	220-240V 50Hz	CSIR	R	C-V	290	461	1045	2.25	1240	1247	2.50	9.80	Uc	
NUY90RAB	125B3710	8.90	1/4	HMBP	F	220-240V 50Hz	CSR	R	C-V	290	461	1045	2.25	1240	1247	2.70	9.80	Uc	
NLY12RAa	123B3529	10.70	1/3	HMBP	F	220-240V 50Hz	CSIR	R	C-V	379	584	1224	2.06	1432	1453	2.41	11.44	Ld	
NLY12RAB	123B3530	10.70	1/3	HMBP	F	220-240V 50Hz	CSR	R	C-V	379	597	1249	2.28	1457	1480	2.66	11.54	Ld	
NLY12RGa	123B3531	10.70	1/3	HMBP	F	200-220/220-230V 50/60Hz	CSIR	R	C-V	341	553	1217	2.03	1432	1448	2.39	12.14	Ld	
NLY12RGB	123B3532	10.70	1/3	HMBP	F	200-220/220-230V 50/60Hz	CSR	R	C-V	355	554	1226	2.20	1450	1462	2.58	12.24	Ld	
NPY12RAa	123B3701	12.10	3/8	HBP	F	220-240V 50Hz	CSIR	R	C-V	-	635	1460	2.08	1735	1745	2.45	12.16	Pd	
NPY12RAB	123B3702	12.10	3/8	HBP	F	220-240V 50Hz	CSR	R	C-V	-	635	1460	2.28	1735	1745	2.70	12.26	Pd	
NPT14RA	123B3703	14.32	1/2	HBP	F	220-240V 50Hz	CSR	R	C-V	-	763	1709	2.26	2085	2065	2.69	12.25	Pd	
NPT16RA	123B3712	16.10	1/2	HBP	F	220-240V 50Hz	CSR	R	C-V	-	853	1911	2.18	2331	2310	2.55	12.34	Pd	
NX18TBa	123B3514	18.40	2/3	HMBP	F	220-240V 50Hz	CSR	R	C-V	511	852	2039	2.22	2440	2445	2.61	16.14	Xd	
NX21TBa	123B3515	20.72	2/3	HMBP	F	220-240V 50Hz	CSR	R	C-V	601	973	2267	2.18	2705	2714	2.55	16.09	Xd	
NX21TGa	12,3B3593	20.72	2/3	HMBP	F	200-220/220-230V 50/60Hz	CSR	R	C-V	601	975	1085	2.06	2661	2675	2.41	16.20	Xd	
NST26RA	123B3537	25.93	3/4	HMBP	F	220-240V 50Hz	CSR	R	C-V	728	1264	2931	2.40	3472	3498	2.82	22.00	Sd	
NST34RA	123B3714	34.42	1	HBP	F	220-240V 50Hz	CSR	R	C-V	-	1822	4010	2.28	4752	4786	2.67	21.10	Sd	
NST38NA	123B3324	38.00	1.5	LMHBP	F	220-240V 50Hz	CSR	R	C-V	1095	2003	4409	2.06	5225	5262	2.40	22.20	Sd	

R290 HMBP | HBP • 60 Hz

Natural Refrigerant

MODEL	DANFOSS CODE (†)	DISPLACEMENT cm <sup>3</sup>	POWER hp	APPLICATION	CPR COOLING	VOLTAGE FREQUENCY	MOTOR	STARTING	EXPANSION	REFRIGERATION CAPACITY								WEIGHT Kg	DESIGN
										COP in W/W Evaporating Temperature °C									
										CECOMAF (W)					ASHRAE				
										-25	-15	5		10	7.2				
												W	COP		W	COP			
NLT12RR	123B3533	10.70	1/3	HMBP	F	115-127V 60Hz	CSR	R	C-V	424	691	1501	2.15	1761	1784	2.51	11.91	Ld	
NPT14RR	123B3534	14.32	1/2	HMBP	F	115-127V 60Hz	CSR	R	C-V	590	938	1987	2.20	2323	2360	2.60	13.35	Pd	
NPT16RR	123B3535	16.15	1/2	HMBP	F	115-127V 60Hz	CSR	R	C-V	629	963	2204	2.11	2633	2570	2.45	13.74	Pd	
NLY12RGa	123B3531	10.70	1/3	HMBP	F	200-220/220-230V 50/60Hz	CSIR	R	C-V	418	669	1445	2.07	1696	1718	2.41	12.14	Ld	
NLY12RGB	123B3532	10.70	1/3	HMBP	F	200-220/220-230V 50/60Hz	CSR	R	C-V	429	679	1469	2.25	1727	1747	2.63	12.24	Ld	
NX21TGa	123B3539	20.72	2/3	HMBP	F	200-220/220-230V 50/60Hz	CSR	R	C-V	694	1181	2638	2.02	3102	3138	2.34	16.20	Xd	

Green Cooling Models

New Models




























See design drawing on pages 40-41

(†) Ordering code for single compressors. For pallet packed compressors, please use 123F instead of 123B



## Danfoss Light Commercial Refrigeration Compressors

### R600a LBP • 50 Hz

MODEL	DANFOSS CODE (†)	DISPLACEMENT cm <sup>3</sup>	POWER hp	APPLICATION	CPR-COOLING	VOLTAGE FREQUENCY	MOTOR	STARTING	EXPANSION	REFRIGERATION CAPACITY								WEIGHT Kg	DESIGN
										COP in W/W Evaporating Temperature °C									
										CECOMAF (W)				ASHRAE					
										35	-30	-25		-10	-23.3				
												W	COP		W	COP			
 L22CL	123B8401	2.20	1/20	LBP	S	220-240V 50Hz	RSIR	P	C	13	18	<b>23</b>	<b>0.67</b>	46	<b>30</b>	<b>0.85</b>	3.60	Lb	
 L30CL	123B8402	3.10	1/12	LBP	S	220-240V 50/60Hz	RSIR	P	C	21	28	<b>37</b>	<b>0.77</b>	78	<b>48</b>	<b>0.98</b>	3.80	Lc	
 HL30NA	123B8426	3.10	1/12	LMBP	S	220-240V 50Hz	RSCR	P	C	21	28	<b>37</b>	<b>1.10</b>	79	<b>48</b>	<b>1.43</b>	4.50	HLb	
 HYB35MHJa	125B4196	3.50	1/12	LBP	S	220-240V 50Hz	RSIR	P	C	23	31	<b>41</b>	<b>1.07</b>	86	<b>55</b>	<b>1.35</b>	4.70	HYBc	
 HYB35MGJa	125B4197	3.50	1/12	LBP	S	220-240V 50Hz	RSCR	P	C	23	31	<b>41</b>	<b>1.20</b>	86	<b>55</b>	<b>1.52</b>	5.00	HYBd	
 HL35NA	123B8427	3.50	1/12	LMBP	S	220-240V 50Hz	RSCR	P	C	23	31	<b>41</b>	<b>1.10</b>	78	<b>56</b>	<b>1.43</b>	4.90	HLb	
 HYB40MJa	125B4198	4.00	1/10	LBP	S	220-240V 50Hz	RSIR	P	C	27	36	<b>48</b>	<b>0.91</b>	91	<b>65</b>	<b>1.15</b>	4.40	HYBc	
 HYB40MHJa	125B4201	4.00	1/10	LBP	S	220-240V 50Hz	RSIR	P	C	27	36	<b>48</b>	<b>1.05</b>	91	<b>65</b>	<b>1.33</b>	4.70	HYBd	
 B43CB	123B8405	4.30	1/10	LBP	S	220-240V 50Hz	RSIR	P	C	29	39	<b>51</b>	<b>0.90</b>	108	<b>69</b>	<b>1.15</b>	4.60	Bc	
 B43CB	123B8405	4.30	1/10	LBP	S	220-240V 50Hz	RSCR	P	C	29	39	<b>51</b>	<b>1.02</b>	108	<b>69</b>	<b>1.30</b>	4.60	Bc	
 HK48NA	123B8428	4.80	1/8	LMBP	S	220-240V 50Hz	RSCR	P	C	30	41	<b>53</b>	<b>1.10</b>	112	<b>73</b>	<b>1.43</b>	5.20	HKb	
 HYB50MHJa	125B4199	5.00	1/8	LBP	S	220-240V 50Hz	RSIR	P	C	32	43	<b>56</b>	<b>1.03</b>	119	<b>75</b>	<b>1.30</b>	4.70	HYBd	
 HYB50MGJa	125B4202	5.00	1/8	LBP	S	220-240V 50Hz	RSCR	P	C	35	47	<b>61</b>	<b>1.21</b>	129	<b>82</b>	<b>1.53</b>	5.00	HYBd	
 B52CL	123B8408	5.20	1/8	LBP	S	220-240V 50Hz	RSIR	P	C	33	44	<b>58</b>	<b>0.90</b>	123	<b>78</b>	<b>1.20</b>	4.60	Bc	
 B52CL	123B8408	5.20	1/8	LBP	S	220-240V 50Hz	RSIR	P	C	33	44	<b>58</b>	<b>1.10</b>	123	<b>78</b>	<b>1.42</b>	5.20	Bd	
 HYB60MHU	125B4223	6.00	1/6	LBP	S	220-240V 50Hz	RSIR	P	C	43	57	<b>75</b>	<b>1.07</b>	159	<b>100</b>	<b>1.35</b>	5.30	HYBe	
 HYB60MKUa	125B4224	6.00	1/6	LBP	S	220-240V 50Hz	RSCR	P	C	43	57	<b>75</b>	<b>1.31</b>	159	<b>100</b>	<b>1.65</b>	6.20	HYBf	
 HYB69MKUa	125B4225	6.90	1/5	LBP	S	220-240V 50Hz	RSCR	P	C	57	77	<b>101</b>	<b>1.31</b>	214	<b>118</b>	<b>1.65</b>	6.30	HYBf	
 HYE81MGUa	125B4205	8.10	1/4	LBP	S	220-240V 50Hz	RSCR	P	C	64	86	<b>113</b>	<b>1.17</b>	239	<b>140</b>	<b>1.53</b>	6.90	HYEb	
 HYE90MKUa	125B4206	8.90	1/4	LBP	S	220-240V 50Hz	RSCR	P	C	72	93	<b>123</b>	<b>1.27</b>	265	<b>152</b>	<b>1.65</b>	9.30	HYEb	
 HYE90MXU63	125B4213	8.90	1/4	LBP	ST	220-240V 50/60Hz	RSCR	P	C	72	96	<b>126</b>	<b>1.37</b>	267	<b>155</b>	<b>1.80</b>	9.40	HYEb	
 HYE105MTU63	125B4215	10.50	1/4	LBP	ST	220-240V 50/60Hz	RSCR	P	C	78	106	<b>138</b>	<b>1.30</b>	292	<b>175</b>	<b>1.65</b>	9.10	HYEd	
 HYE105MKUa	125B4226	10.50	1/4	LBP	S	220-240V 50Hz	RSCR	P	C	79	106	<b>140</b>	<b>1.26</b>	294	<b>185</b>	<b>1.60</b>	8.80	HYEb	
 HYE113MKUa	125B4207	11.30	3/8	LBP	S	220-240V 50Hz	RSCR	P	C	85	115	<b>150</b>	<b>1.30</b>	318	<b>200</b>	<b>1.65</b>	8.50	HYEb	
 HYE125MSUa	125B4227	12.30	3/8	LBP	S	220-240V 50Hz	RSCR	P	C	93	125	<b>164</b>	<b>1.49</b>	347	<b>218</b>	<b>1.89</b>	9.30	HYEb	
 HYE131MKUa	125B4209	13.10	1/2	LBP	S	220-240V 50Hz	RSCR	P	C	101	135	<b>177</b>	<b>1.29</b>	375	<b>235</b>	<b>1.63</b>	9.10	HYEd	
 HYE153MKU (*)	125B4228	15.30	1/2	LBP	S	220-240V 50Hz	RSCR	P	C	114	153	<b>200</b>	<b>1.30</b>	424	<b>265</b>	<b>1.65</b>	9.40	HYEd	

 Green Cooling Models  
 New Models

(\*) Model under development. Provisional performance/data.

See design drawing on pages 40-41

(†) Ordering code for single compressors. For pallet packed compressors, please use 123F instead of 123B

# Danfoss Light Commercial Refrigeration Compressors

## R600a LBP • 60 Hz

MODEL	DANFOSS CODE (α)	DISPLACEMENT cm <sup>3</sup>	POWER hp	APPLICATION	CPR COOLING	VOLTAGE FREQUENCY	MOTOR	STARTING	EXPANSION	REFRIGERATION CAPACITY						WEIGHT Kg	DESIGN	
										COP in W/W Evaporating Temperature °C								
										CECOMAF (W)			ASHRAE					
										35	-30	-25	-10	-23.3				
		W	COP	W	COP													
L22C5L	123B8415	2.20	1/20	LBP	S	110-120V 60Hz	RSIR	P	C	16	22	<b>30</b>	<b>0.86</b>	63	<b>40</b>	<b>1.10</b>	3.60	Lb
B35C5B	123B8417	3.50	1/12	LBP	S	110-115 60Hz	RSIR	P	C	26	36	<b>49</b>	<b>0.94</b>	403	<b>65</b>	<b>1.20</b>	4.60	Bb
HYB35MHJ42a	125B4229	3.50	1/12	LBP	ST	115V 60Hz	RSIR	P	C	26	36	<b>49</b>	<b>1.04</b>	104	<b>65</b>	<b>1.32</b>	4.26	HYBb
B43C5B	123B8421	4.30	1/10	LBP	S	110-115V 60Hz	RSIR	P	C	31	43	<b>58</b>	<b>1.02</b>	121	<b>78</b>	<b>1.30</b>	4.60	Bb
HYB40MHJ42a	125B4230	4.00	1/10	LBP	ST	115V 60Hz	RSIR	P	C	30	42	<b>57</b>	<b>1.06</b>	120	<b>76</b>	<b>1.35</b>	4.70	HYBd
B52C5BL	123B8422	5.20	1/8	LBP	S	110-120V 60Hz	RSCR	P	C	38	53	<b>72</b>	<b>1.18</b>	149	<b>95</b>	<b>1.50</b>	5.20	Be
HYB50MGU72a	125B4216	5.00	1/8	LBP	ST	115-127V 60Hz	RSCR	P	C	38	53	<b>72</b>	<b>1.25</b>	152	<b>96</b>	<b>1.58</b>	6.00	HYBf
HYB60MGU72a	125B4217	6.00	1/5	LBP	ST	115-127V 60Hz	RSCR	P	C	47	66	<b>90</b>	<b>1.25</b>	190	<b>120</b>	<b>1.58</b>	6.00	HYBf
HYS60MSU72a	125B4218	6.00	1/5	LBP	ST	115-127V 60Hz	RSCR	P	C	42	64	<b>90</b>	<b>1.42</b>	187	<b>120</b>	<b>1.80</b>	7.10	HYSb
HYS67MGU72a	125B4231	6.70	1/5	LBP	ST	115-127V 60Hz	RSCR	P	C	48	73	<b>102</b>	<b>1.22</b>	212	<b>136</b>	<b>1.55</b>	6.60	HYSc
HYS69MKU42a	125B4219	6.90	1/4	LBP	ST	115V 60Hz	RSCR	P	C	51	78	<b>109</b>	<b>1.30</b>	227	<b>145</b>	<b>1.65</b>	6.80	HYSc
HYE81MSU42	125B4220	8.10	1/4	LBP	ST	115V 60Hz	RSCR	P	C	65	94	<b>128</b>	<b>1.42</b>	257	<b>170</b>	<b>1.80</b>	9.00	HYEb
HYE90MSU72a	125B4221	9.00	1/4	LBP	ST	115-127V 60Hz	RSCR	P	C	70	102	<b>139</b>	<b>1.34</b>	279	<b>185</b>	<b>1.70</b>	8.30	HYSd
HYS96MTU72a	125B4210	9.60	1/4	LBP	ST	115-127V 60Hz	RSCR	P	C	67	102	<b>143</b>	<b>1.34</b>	297	<b>190</b>	<b>1.70</b>	7.10	HYSd
HYS105MTR	125B4211	10.50	3/8	LBP	ST	115-127V 60Hz	RSCR	P	C	74	113	<b>158</b>	<b>1.36</b>	329	<b>210</b>	<b>1.72</b>	7.30	HYSd
L30CL	123B8402	3.10	1/12	LBP	S	220-240V 50/60Hz	RSIR	P	C	22	30	<b>41</b>	<b>0.86</b>	86	<b>55</b>	<b>1.10</b>	3.60	Lc
B35C	123B8403	3.50	1/12	LBP	S	220V 60Hz	RSIR	P	C	24	33	<b>45</b>	<b>0.93</b>	94	<b>60</b>	<b>1.18</b>	4.60	Bc
B43CB	123B8405	4.30	1/10	LBP	S	220-240V 60Hz	RSIR	P	C	28	38	<b>52</b>	<b>0.98</b>	109	<b>70</b>	<b>1.25</b>	4.60	Bc
B60CBL	123B8411	6.00	1/6	LBP	S	220-240V 60Hz	RSIR	P	C	44	61	<b>83</b>	<b>1.03</b>	174	<b>110</b>	<b>1.30</b>	4.60	Bc
HYS67MKU62a	125B4212	6.70	1/5	LBP	ST	220-240V 60Hz	RSCR	P	C	48	73	<b>102</b>	<b>1.30</b>	212	<b>136</b>	<b>1.65</b>	6.80	HYSd
HYS81MKU62a	125B4222	8.10	1/4	LBP	ST	220-240V 60Hz	RSCR	P	C	56	86	<b>120</b>	<b>1.30</b>	250	<b>160</b>	<b>1.65</b>	6.80	HYSd
HYE90MXU63	125B4213	8.90	1/4	LBP	ST	220-240V 50/60Hz	RSCR	P	C	70	102	<b>139</b>	<b>1.48</b>	279	<b>185</b>	<b>1.88</b>	9.40	HYSd
HYE105MTU63	125B4215	10.50	1/4	LBP	ST	220-240V 50/60Hz	RSCR	P	C	80	116	<b>158</b>	<b>1.36</b>	317	<b>210</b>	<b>1.72</b>	9.10	HYEd
HYE113MSU62	125B4214	11.30	1/2	LBP	ST	220-240V 60Hz	RSCR	P	C	87	126	<b>172</b>	<b>1.42</b>	345	<b>228</b>	<b>1.80</b>	9.40	HYEd

## R600a HMBP | HBP • 50 Hz

MODEL	DANFOSS CODE (α)	DISPLACEMENT cm <sup>3</sup>	POWER hp	APPLICATION	CPR COOLING	VOLTAGE FREQUENCY	MOTOR	STARTING	EXPANSION	REFRIGERATION CAPACITY						WEIGHT Kg	DESIGN	
										COP in W/W Evaporating Temperature °C								
										CECOMAF (W)			ASHRAE					
										-25	-15	5	10	7.2				
		W	COP	W	COP													
HFY55MA	125B4505	5.50	1/6	HMBP	S	220-240V 50Hz	RSIR	P	C	64	110	<b>273</b>	<b>2.38</b>	327	<b>325</b>	<b>2.75</b>	7.10	HFYb
HUY55MAb	125B4502	5.50	1/6	HMBP	S	220-240V 50Hz	RSCR	P	C	64	110	<b>272</b>	<b>2.58</b>	327	<b>323</b>	<b>2.99</b>	9.05	U <b>b</b>
HFY70MA	125B4507	6.70	1/6	HMBP	S	220-240V 50Hz	RSIR	P	C	80	137	<b>338</b>	<b>2.37</b>	406	<b>395</b>	<b>2.75</b>	7.10	HFYb
HUY70MAb	125B4504	6.70	1/5	HMBP	S	220-240V 50Hz	RSCR	P	C	80	137	<b>338</b>	<b>2.59</b>	406	<b>401</b>	<b>2.99</b>	9.01	U <b>b</b>

	Conditions			
	CECOMAF		ASHRAE	
	LBP	HMBP/HBP	LBP	HMBP/HBP

Evaporating temperature °C	-25	5	-23.3	7.2
Condensing temperature °C	55	55	55	55
Liquid temperature °C	55	55	32	46
Suction temperature °C	32	32	32	35
Ambient temperature °C	32	32	32	35

Green Cooling Models

New Models

See design drawing on pages 40-41

(α) Ordering code for single compressors. For pallet packed compressors, please use 123F instead of 123B

**VSC/DC**



Variable Speed Compressors - R290 LBP • 50-60Hz

MODEL	DANFOSS CODE (α)	DISPLACEMENT cm <sup>3</sup>	APPLICATION	CPR COOLING	VOLTAGE FREQUENCY	MOTOR	EXPANSION	SPEED rpm	REFRIGERATION CAPACITY						WEIGHT Kg	DESIGN	
									COP in W/W 1W=0,864 kcal/h = 3,415 BTU/h Evaporating Temperature °C								
									CECOMAF (W)			ASHRAE					
									-40	-30	-25	-10	-23.3				
		W	COP		W	COP											
NVT50FSC	contact Danfoss	5.00	LMBP	F	115-240V 50/60Hz ~1	PMSM	C-V	1600	39	70	<b>90</b>	<b>1.28</b>	166	<b>120</b>	<b>1.66</b>	6.40	Vb
								2400	62	111	<b>142</b>	<b>1.35</b>	263	<b>190</b>	<b>1.75</b>		
								3000	81	144	<b>185</b>	<b>1.33</b>	343	<b>248</b>	<b>1.72</b>		
								4500	119	212	<b>272</b>	<b>1.28</b>	504	<b>365</b>	<b>1.66</b>		
NVT70FSC	125B3901 - with drop in electronic unit 125B3902 - with frequency input electronic unit	7.00	LMBP	F	115-240V 50/60Hz ~1	PMSM	C-V	1600	57	102	<b>131</b>	<b>1.36</b>	243	<b>176</b>	<b>1.76</b>	6.20	Vb
								2400	89	160	<b>205</b>	<b>1.41</b>	380	<b>275</b>	<b>1.83</b>		
								3000	114	204	<b>261</b>	<b>1.37</b>	484	<b>350</b>	<b>1.79</b>		
								4500	168	300	<b>384</b>	<b>1.33</b>	712	<b>515</b>	<b>1.73</b>		
NUS100FSC	125B3907 - with drop in electronic unit 125B3908 - with frequency input electronic unit	10.50	LMBP	F	115-240V 50/60Hz ~1	PMSM	C-V	2000	111	195	<b>253</b>	<b>1.35</b>	486	<b>340</b>	<b>1.75</b>	8.95	Uv
								2400	138	243	<b>315</b>	<b>1.40</b>	605	<b>423</b>	<b>1.82</b>		
								3000	168	296	<b>383</b>	<b>1.38</b>	737	<b>515</b>	<b>1.80</b>		
								4500	238	419	<b>543</b>	<b>1.27</b>	1044	<b>730</b>	<b>1.65</b>		
NUS125FSC	125B3903 - with drop in electronic unit 125B3904 - with frequency input electronic unit	12.50	LMBP	F	220-240V 50/60Hz ~1	PMSM	C-V	2000	131	230	<b>297</b>	<b>1.34</b>	572	<b>400</b>	<b>1.74</b>	8.95	Uv
								2400	163	286	<b>370</b>	<b>1.39</b>	713	<b>498</b>	<b>1.81</b>		
								3000	207	365	<b>472</b>	<b>1.38</b>	909	<b>635</b>	<b>1.80</b>		
								4500	287	505	<b>654</b>	<b>1.29</b>	1259	<b>880</b>	<b>1.68</b>		
NUS125FSC	125B3905 - with drop in electronic unit 125B3906 - with frequency input electronic unit	12.50	LBP	F	115-240V 50/60Hz ~1	PMSM	C-V	2000	131	230	<b>297</b>	<b>1.34</b>	572	<b>400</b>	<b>1.74</b>	8.95	Uv
								2400	163	286	<b>370</b>	<b>1.39</b>	713	<b>498</b>	<b>1.81</b>		
								3000	207	365	<b>472</b>	<b>1.38</b>	909	<b>635</b>	<b>1.80</b>		
								3600	237	417	<b>540</b>	<b>1.29</b>	1039	<b>726</b>	<b>1.68</b>		
NUS160FSC (*)	125B3909 - with drop in electronic unit 125B3910 - with frequency input electronic unit	16.15	LBP	F	220-240V 50/60Hz ~1	PMSM	C-V	2000	175	303	<b>389</b>	<b>UD</b>	732	<b>521</b>	<b>UD</b>	U.D.	U.D.
								2400	202	349	<b>448</b>	<b>UD</b>	843	<b>600</b>	<b>UD</b>		
								3000	244	422	<b>541</b>	<b>UD</b>	1018	<b>725</b>	<b>UD</b>		
								3600	286	495	<b>634</b>	<b>UD</b>	1194	<b>850</b>	<b>UD</b>		

Green Cooling Models  
New Models

(\*) Model under development. Provisional performance/data.

See design drawing on pages 40-41

(α) Ordering code for single compressors. For pallet packed compressors, please use 123F instead of 123B

## Danfoss Light Commercial Refrigeration Compressors

### DC Compressors - R134a LBP | MBP | HBP • 50-60Hz

MODEL	DANFOSS CODE (†)	DISPLACEMENT cm <sup>3</sup>	APPLICATION	CPR COOLING	VOLTAGE FREQUENCY	MOTOR	EXPANSION	SPEED rpm	REFRIGERATION CAPACITY							WEIGHT Kg	DESIGN
									COP in W/W 1W=0,864 kcal/h = 3,415 BTU/h Evaporating Temperature °C								
									CECOMAF (W)					Ashrae			
									-35	-30	-25		-10	-23.3			
		W	COP		W	COP											
DM14H	contact Danfoss	1.40	LBP	S	12-24V DC	BLDC	C	2000	5	8	<b>11</b>	<b>0.61</b>	29	<b>16</b>	<b>0.80</b>	2.40	DMb
								2500	7	11	<b>16</b>	<b>0.64</b>	41	<b>22</b>	<b>0.86</b>		
								3000	9	13	<b>19</b>	<b>0.65</b>	46	<b>29</b>	<b>0.87</b>		
								3500	14	20	<b>29</b>	<b>0.75</b>	70	<b>40</b>	<b>1.00</b>		
DM16H	contact Danfoss	1.60	LBP	S	12-24V DC	BLDC	C	2000	6	9	<b>14</b>	<b>0.68</b>	36	<b>20</b>	<b>0.90</b>	2.40	DMb
								2500	7	12	<b>17</b>	<b>0.69</b>	44	<b>24</b>	<b>0.92</b>		
								3000	9	14	<b>21</b>	<b>0.70</b>	50	<b>31</b>	<b>0.94</b>		
								3500	15	22	<b>32</b>	<b>0.82</b>	77	<b>44</b>	<b>1.10</b>		
DL19H	123F1905	1.90	LMHBP	S/F	12-24V DC	BLDC	C	2000	8	14	<b>21</b>	<b>0.82</b>	53	<b>29</b>	<b>1.08</b>	4.20	DLb
								2500	12	20	<b>29</b>	<b>0.87</b>	74	<b>40</b>	<b>1.16</b>		
								3000	16	24	<b>35</b>	<b>0.88</b>	84	<b>52</b>	<b>1.18</b>		
								3500	20	29	<b>41</b>	<b>0.91</b>	100	<b>57</b>	<b>1.21</b>		
DL22H	123F1906	2.20	LMHBP	S/F	12-24V DC	BLDC	C	2000	11	18	<b>27</b>	<b>0.88</b>	69	<b>38</b>	<b>1.16</b>	4.20	DLb
								2500	14	22	<b>33</b>	<b>0.89</b>	83	<b>45</b>	<b>1.19</b>		
								3000	18	27	<b>40</b>	<b>0.90</b>	95	<b>59</b>	<b>1.21</b>		
								3500	23	33	<b>48</b>	<b>0.92</b>	116	<b>66</b>	<b>1.23</b>		
DL30H	123F1907	3.00	LMHBP	S/F	12-24V DC	BLDC	C	2000	15	24	<b>36</b>	<b>0.93</b>	93	<b>51</b>	<b>1.22</b>	4.20	DLb
								2500	20	31	<b>46</b>	<b>0.94</b>	116	<b>63</b>	<b>1.26</b>		
								3000	25	38	<b>56</b>	<b>0.94</b>	132	<b>82</b>	<b>1.27</b>		
								3500	31	45	<b>65</b>	<b>0.93</b>	158	<b>90</b>	<b>1.24</b>		
DL35H	123F1908	3.50	LBP	S	12-24V DC	BLDC	C	2000	19	30	<b>45</b>	<b>0.91</b>	116	<b>64</b>	<b>1.20</b>	4.30	DLb
								2500	25	39	<b>58</b>	<b>0.92</b>	145	<b>79</b>	<b>1.23</b>		
								3000	31	47	<b>70</b>	<b>0.94</b>	165	<b>103</b>	<b>1.26</b>		
								3500	38	55	<b>80</b>	<b>0.93</b>	193	<b>110</b>	<b>1.25</b>		
VDL19H	123F1909	1.90	LBP	S	12-24V DC 100-240V AC	BLDC	C	2000	8	14	<b>21</b>	<b>0.82</b>	53	<b>29</b>	<b>1.08</b>	4.40	VDLb
								2500	12	20	<b>29</b>	<b>0.87</b>	74	<b>40</b>	<b>1.16</b>		
								3000	16	24	<b>35</b>	<b>0.88</b>	84	<b>52</b>	<b>1.18</b>		
								3500	20	29	<b>41</b>	<b>0.91</b>	100	<b>57</b>	<b>1.21</b>		
VDL22H	123F1910	2.20	LBP	S	12-24V DC 100-240V AC	BLDC	C	2000	11	18	<b>27</b>	<b>0.88</b>	69	<b>38</b>	<b>1.16</b>	4.40	VDLb
								2500	14	22	<b>33</b>	<b>0.89</b>	83	<b>45</b>	<b>1.19</b>		
								3000	18	27	<b>40</b>	<b>0.90</b>	95	<b>59</b>	<b>1.21</b>		
								3500	23	33	<b>48</b>	<b>0.92</b>	116	<b>66</b>	<b>1.23</b>		

### DC Compressors - R134a LBP | MBP | HBP • 50-60Hz

MODEL	DANFOSS CODE (†)	DISPLACEMENT cm <sup>3</sup>	APPLICATION	CPR COOLING	VOLTAGE FREQUENCY	MOTOR	EXPANSION	SPEED rpm	REFRIGERATION CAPACITY							WEIGHT Kg	DESIGN
									COP in W/W 1W=0,864 kcal/h = 3,415 BTU/h Evaporating Temperature °C								
									CECOMAF (W)					Ashrae			
									-25	-15	5		10	+7,2			
		W	COP		W	COP											
GLT80TDC	123F1902	8.10	HMBP	F	24-42V DC	ECM	C	1500	78	139	<b>362</b>	<b>1.93</b>	421	<b>429</b>	<b>2.19</b>	8.40	Lc
								2000	107	190	<b>487</b>	<b>2.06</b>	565	<b>578</b>	<b>2.34</b>		
								2500	135	238	<b>601</b>	<b>1.99</b>	710	<b>712</b>	<b>2.26</b>		
								3000	161	281	<b>711</b>	<b>1.91</b>	840	<b>843</b>	<b>2.17</b>		
								3500	185	320	<b>818</b>	<b>1.82</b>	962	<b>969</b>	<b>2.07</b>		







Green Cooling Models

▲ New Models


See design drawing on pages 40-41

(†) Ordering code for single compressors. For pallet packed compressors, please use 123F instead of 123B

DC Compressors - R600a LBP | MBP | HBP • 50-60Hz

	MODEL	DANFOSS CODE (†)	DISPLACEMENT cm <sup>3</sup>	APPLICATION	CPR COOLING	VOLTAGE FREQUENCY	MOTOR	EXPANSION	SPEED rpm	REFRIGERATION CAPACITY						WEIGHT Kg	DESIGN
										COP in W/W 1W=0.864 kcal/h = 3,415 BTU/h Evaporating Temperature °C							
										CECOMAF (W)				Ashrae			
										-35	-30	-25		-10	-23.3		
		W	COP		W	COP											
 DL30C	123B4901	3.00	LBP	S	12-24V DC	BLDC	C	2000	9	15	<b>23</b>	<b>0.91</b>	58	<b>32</b>	<b>1.20</b>	4.20	DLb
								2500	12	19	<b>29</b>	<b>0.91</b>	73	<b>39</b>	<b>1.22</b>		
								3000	16	23	<b>35</b>	<b>0.92</b>	83	<b>51</b>	<b>1.24</b>		
								3500	19	28	<b>40</b>	<b>0.93</b>	97	<b>55</b>	<b>1.25</b>		
 DL35C	123B4902	3.50	LBP	S	12-24V DC	BLDC	C	2000	11	18	<b>28</b>	<b>0.99</b>	71	<b>39</b>	<b>1.30</b>	4.20	DLb
								2500	15	23	<b>35</b>	<b>0.99</b>	89	<b>48</b>	<b>1.32</b>		
								3000	19	29	<b>42</b>	<b>1.00</b>	101	<b>62</b>	<b>1.34</b>		
								3500	24	35	<b>51</b>	<b>1.01</b>	123	<b>70</b>	<b>1.35</b>		
 DK52C	123B4903	5.20	LBP	S	12-24V DC	BLDC	C	2000	17	28	<b>43</b>	<b>0.99</b>	109	<b>60</b>	<b>1.30</b>	4.00	DKb
								2500	23	36	<b>54</b>	<b>0.99</b>	136	<b>74</b>	<b>1.32</b>		
								3000	29	44	<b>65</b>	<b>1.00</b>	155	<b>96</b>	<b>1.34</b>		
								3500	35	50	<b>73</b>	<b>1.01</b>	176	<b>100</b>	<b>1.35</b>		
 DK70C	123B4905	7.00	LBP	S	12-24V DC	BLDC	C	2000	23	38	<b>57</b>	<b>1.06</b>	145	<b>80</b>	<b>1.40</b>	4.00	DKb
								2500	31	48	<b>72</b>	<b>1.06</b>	182	<b>98</b>	<b>1.42</b>		
								3000	39	59	<b>87</b>	<b>1.07</b>	206	<b>128</b>	<b>1.44</b>		
								3500	47	68	<b>98</b>	<b>1.08</b>	237	<b>135</b>	<b>1.45</b>		
 DK90C	123B4906	9.00	LBP	S	12-24V DC	BLDC	C	2000	29	47	<b>71</b>	<b>1.06</b>	182	<b>100</b>	<b>1.40</b>	4.00	DKb
								2500	38	60	<b>90</b>	<b>1.06</b>	227	<b>123</b>	<b>1.42</b>		
								3000	49	73	<b>109</b>	<b>1.07</b>	258	<b>160</b>	<b>1.44</b>		
								3500	61	88	<b>127</b>	<b>1.08</b>	308	<b>175</b>	<b>1.45</b>		
 VDL30C	123B4907	3.00	LBP	S	12-24V DC 100-240V AC	BLDC	C	2000	9	15	<b>23</b>	<b>0.91</b>	58	<b>32</b>	<b>1.20</b>	4.40	VDLb
								2500	12	19	<b>29</b>	<b>0.91</b>	73	<b>39</b>	<b>1.22</b>		
								3000	16	23	<b>35</b>	<b>0.92</b>	83	<b>51</b>	<b>1.24</b>		
								3500	19	28	<b>40</b>	<b>0.93</b>	97	<b>55</b>	<b>1.25</b>		
 VDL35C	123B4908	3.50	LBP	S	12-24V DC 100-240V AC	BLDC	C	2000	11	18	<b>28</b>	<b>0.99</b>	71	<b>39</b>	<b>1.30</b>	4.40	VDLb
								2500	15	23	<b>35</b>	<b>0.99</b>	89	<b>48</b>	<b>1.32</b>		
								3000	19	29	<b>42</b>	<b>1.00</b>	101	<b>62</b>	<b>1.34</b>		
								3500	24	35	<b>51</b>	<b>1.01</b>	123	<b>70</b>	<b>1.35</b>		
 VDK52C	123B4909	5.20	LBP	S	12-24V DC 100-240V AC	BLDC	C	2000	17	28	<b>43</b>	<b>0.99</b>	109	<b>60</b>	<b>1.30</b>	4.00	DKb
								2500	23	36	<b>54</b>	<b>0.99</b>	136	<b>74</b>	<b>1.32</b>		
								3000	29	44	<b>65</b>	<b>1.00</b>	155	<b>96</b>	<b>1.34</b>		
								3500	35	50	<b>73</b>	<b>1.01</b>	176	<b>100</b>	<b>1.35</b>		

 Green Cooling Models

 New Models

See design drawing on pages 40-41

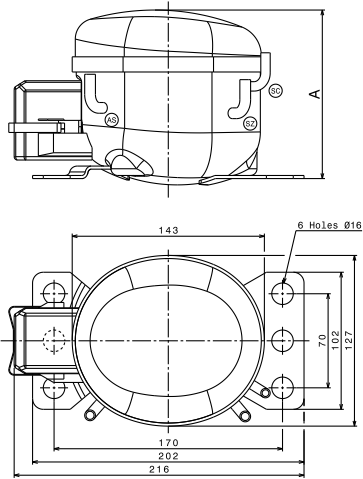
(†) Ordering code for single compressors. For pallet packed compressors, please use 123F instead of 123B

# Technical Information



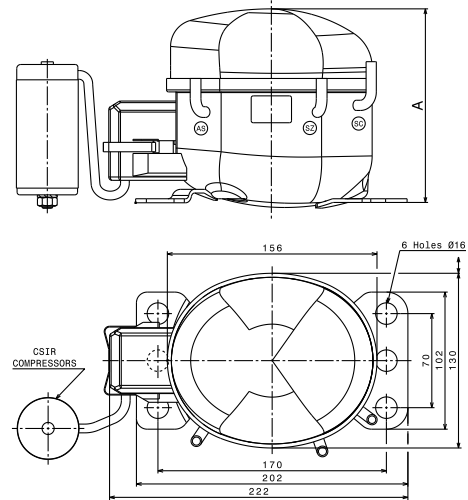
# Compressor Dimensional Drawings

## Small L range



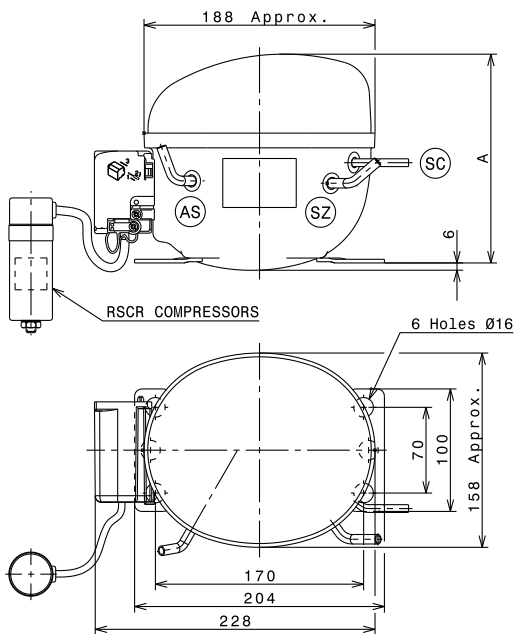
	Designation	Internal diam.		A (mm)
AS	Suction	6.2	Lb	125.5
SC	Discharge	4.9	Lc	129
SZ	Service	6.2	Ld	138
			Le	141

## B range



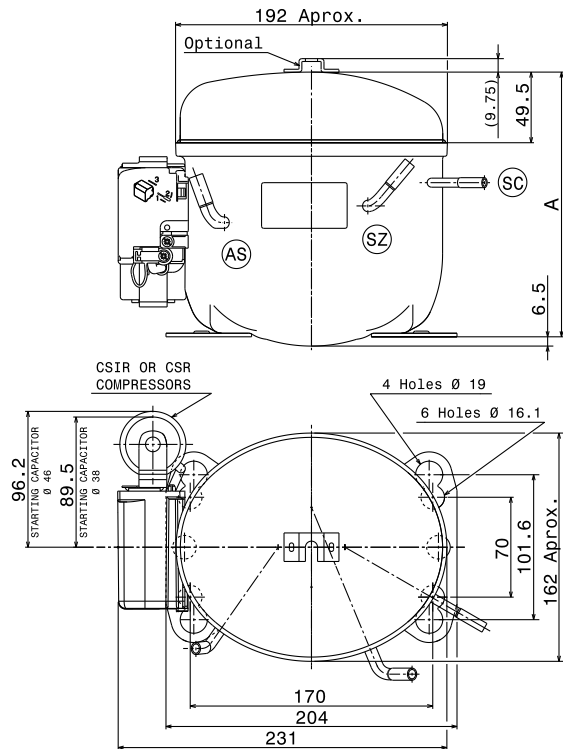
	Designation	Internal diam.		A (mm)
AS	Suction	6.2	Bb	141
SC	Discharge	4.9	Bc	145
SZ	Service	6.2	Bd	153
			Be	159

## U range



	A (mm)	LEGEND
Ub	173.5	AS Suction/Service
Uc	176.5	SC Discharge
		SZ Service/Suction

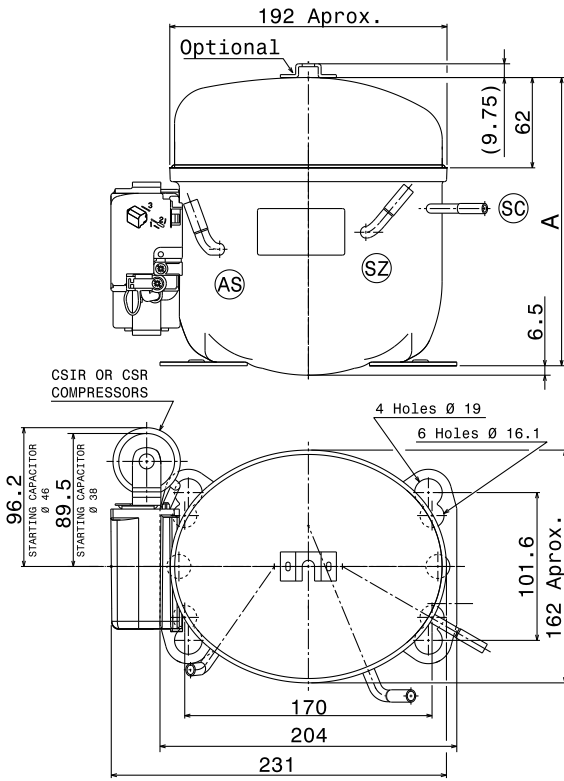
## L range



	A (mm)	LEGEND
Lb	175	AS Suction/Service
Lc	185.6	SC Discharge
Ld	198	SZ Service/Suction

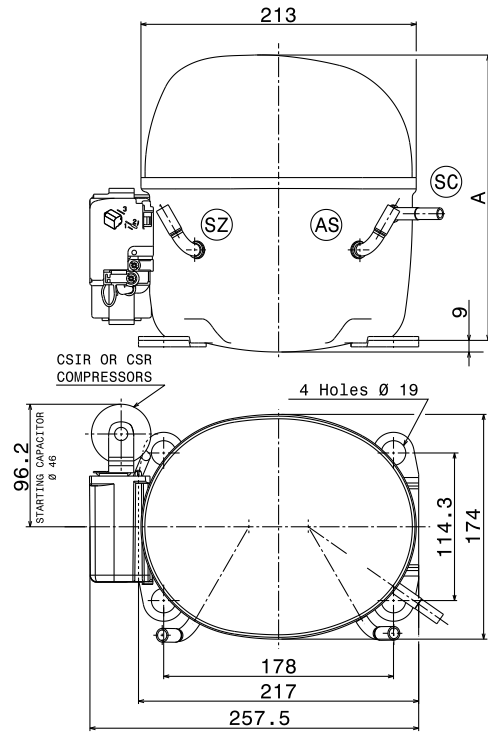


**P range**



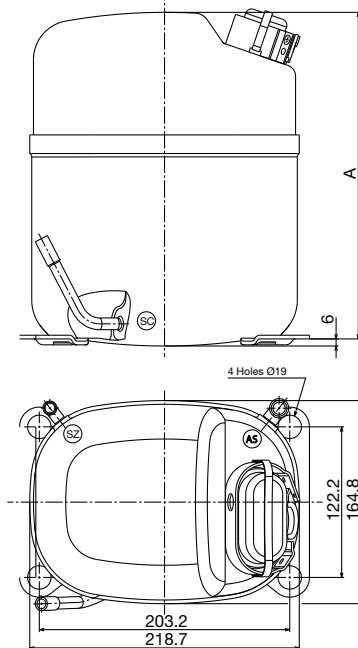
	A (mm)	LEGEND	
Pc	198.1	AS	Suction/Service
Pd	210.5	SC	Discharge
		SZ	Service/Suction

**X range**



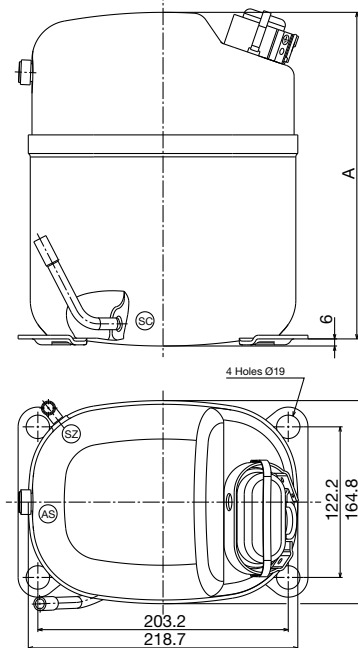
	A (mm)	LEGEND	
Xc	215	AS	Suction/Service
Xd	221	SC	Discharge
		SZ	Service/Suction

**S range (Tube)**



	A (mm)	LEGEND (TUBE)	
Sb	252	AS	Suction/Service
Sc	265	SC	Discharge
Sd	276	SZ	Service/Suction

**S range (Valve)**



	A (mm)	LEGEND (VALVE)	
Sb	252	AS	Valve Service
Sc	265	SC	Discharge
Sd	276	SZ	Service/Suction

# Packaging

## Single Pack

		Box dimensions (mm)			Pallet dimensions (mm)	
	Range	Length	Width	Height	Length	Width
Compressors	Small L	257	172	141/151	1010	1010
	B	257	172	151/166	1010	1010
	U	300	192	167/185	1200	1050
	L & P	300	192	167/185/198/214	1200	1050
	X & P (w/ connecting box)	320	192	222	1050	1050
	X	347	207	230	1050	1050
	S	282	215	363	1010	1010

## Industrial pack

		Tray dimensions (mm)		Pallet dimensions (mm)	
	Range	Length	Width	Length	Width
Compressors	Small L	1110	815	1135	830
	B	1110	815	1135	830
	U (TIR)	1120	810	1200	800
	U (Container)	1120	810	1120	800
	L & P	1060	990	1050	1050
	X	1050	1020	1050	1050
	S	1050	1050	1050	1050

## Quantities per Pallet

Range	Industrial pack			Single Pack		
	Qty / Level	Nº Levels	Qty / Pallet	Qty / Level	No. Levels	Qty / Pallet
Small L	25	6	150	24	5	120
B / HL / HK	25	5	125	24	5	120
HYB / HF	25	5	125	25	4	100
HYS	18	4	72	25	4	100
HYE / HY	18	4	72	20	4	80
U	18	5	90	20	5	100
L	24	5	120	20	5	100
P	24	5	120	20	5	100
X	17	4	68	16	4	64
S	21	2	42	13	4	52

# Fixings

Fixings allow the manufacturer of appliances to fix the compressor to the appliance base, connecting it to the cooling system.

## Mounting feet

Range	Mounting feet	
<b>Small L &amp; B</b>	European type. Set of 4 holes of 16mm DIA with inter-axes: 70x170mm	
<b>U / L / P</b>	European type Set of 4 holes of 16 mm DIA with inter-axes: 70 x 170 mm	American type Two sets of 4 holes: 1. Set of 16 mm DIA with inter-axes: 70 x 170 mm 2. Set of ¾ inch (19 mm) DIA with inter-axes: 4 x 6 1/2 inch (101.6 x 165 mm)
<b>X</b>	One set of 4 holes of 19 mm (¾ inch) DIA with inter-axes: 114.3 x 178 mm (4 1/2 x 7 inch)	
<b>S</b>	One set of 4 holes of 19 mm (¾ inch) DIA with inter-axes: 122.2 x 200.2 mm (4 13/16 x 7 7/8 inch)	

## Silent Blocks (Mounting accessories)

**STANDARD**  
D.16 holds net (170x70)

**STANDARD**  
Small L & B  
D.16 hold net (170x70)

**AMERICAN FEET**  
D.19 holds net  
(165x101.6)

**SNAP-ON**  
D.16 holds net  
(170x70)

**AMERICAN SNAP-ON**  
D. 19 holds net  
(165x101.6)

1. Mounting sleeve

2. Silent Block

1. Clip

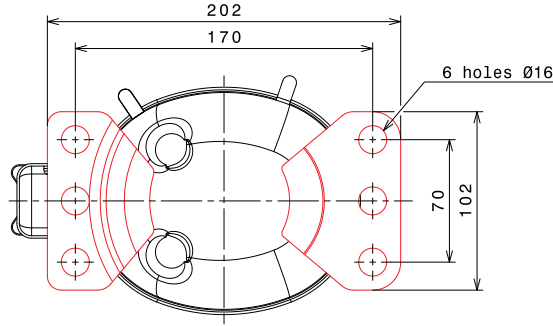
2. Washer

3. Silent Block

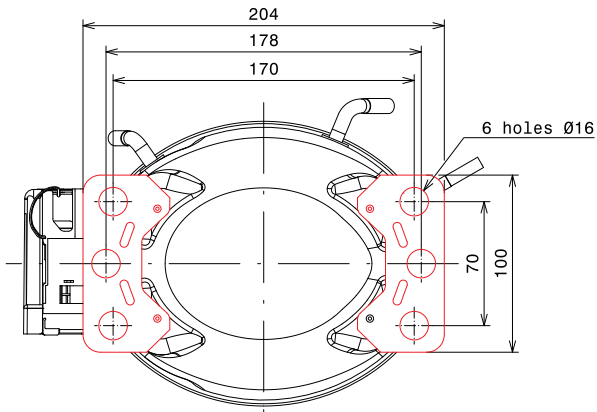
4. Axis

Danfoss Light Commercial Refrigeration Compressors

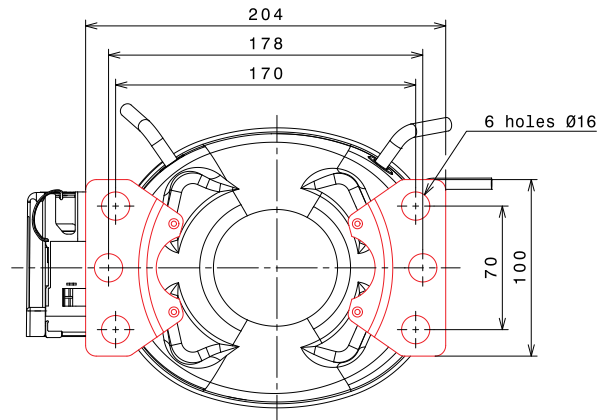
**Small L & B Range**  
European mounting feet



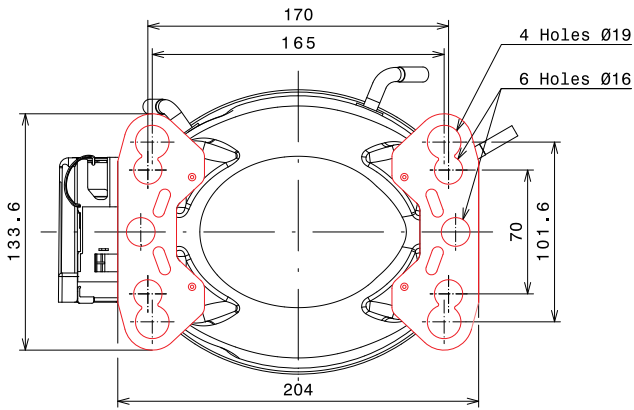
**L / P Range**  
European mounting feet



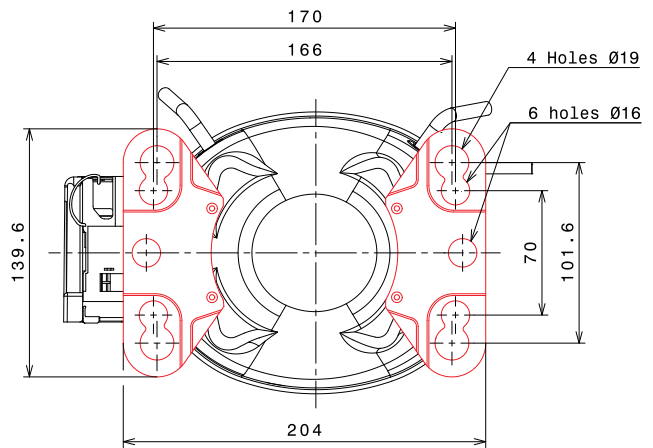
**U Range**  
European mounting feet



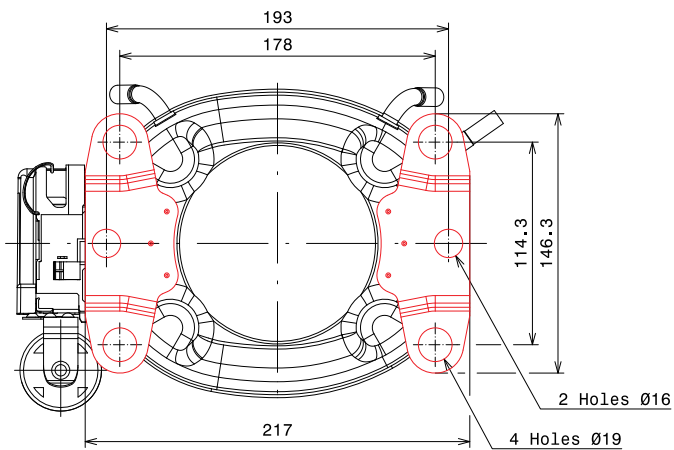
**L / P Range**  
American mounting feet



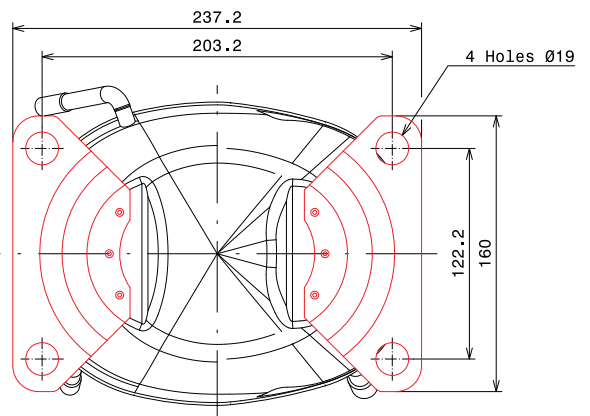
**U Range**  
American mounting feet



**XRange**

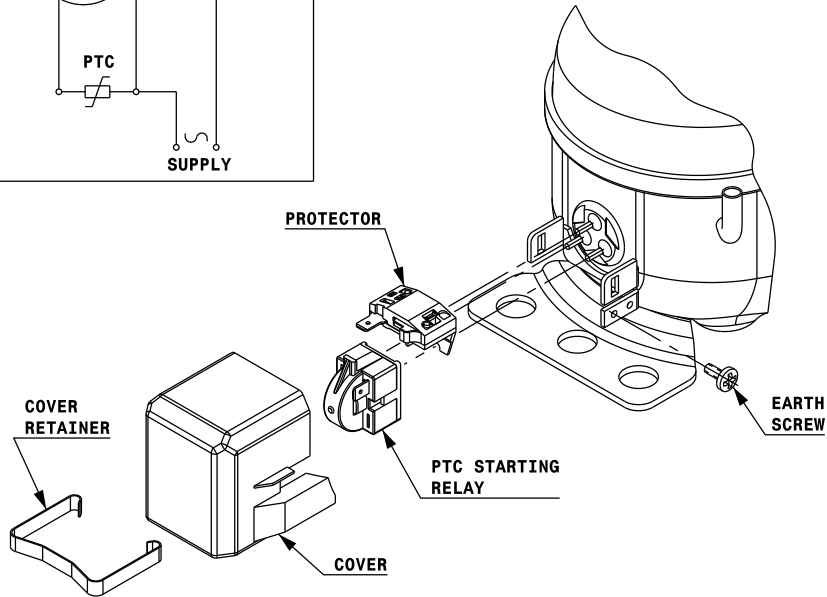
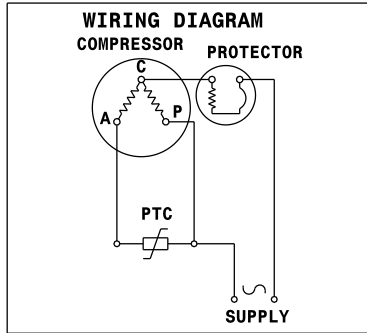


**S Range**

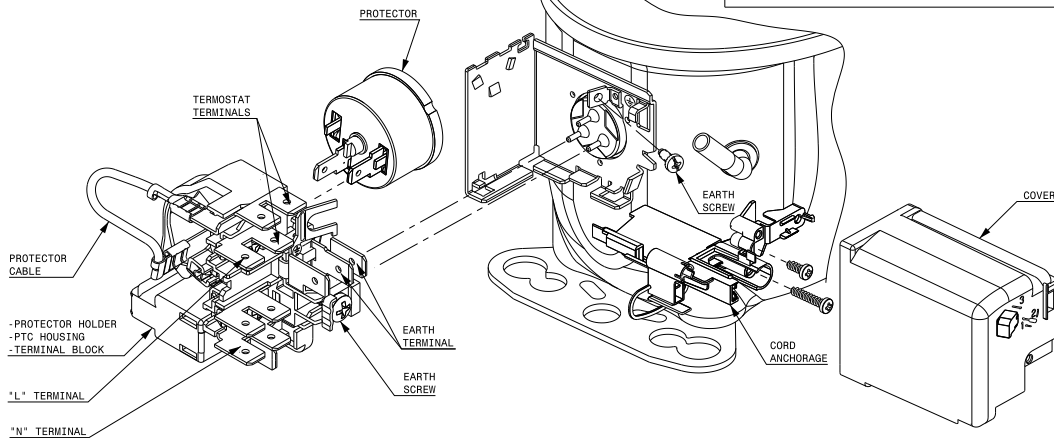
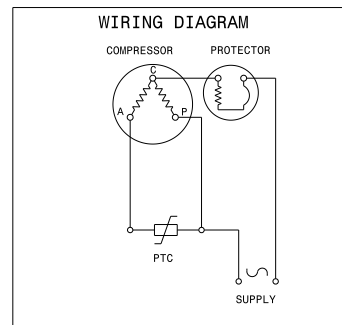


# Wiring Diagrams and Electrical Assembly

## RSIR CONNECTION (PTC) Small L & B

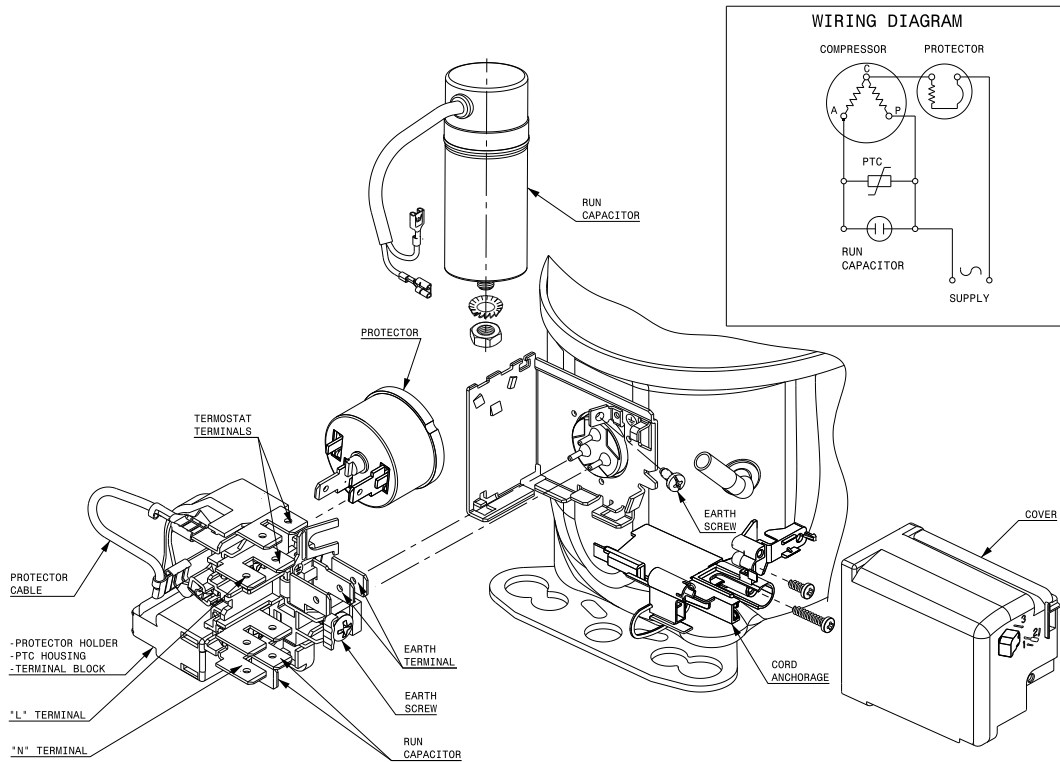


## RSIR CONNECTION (PTC)

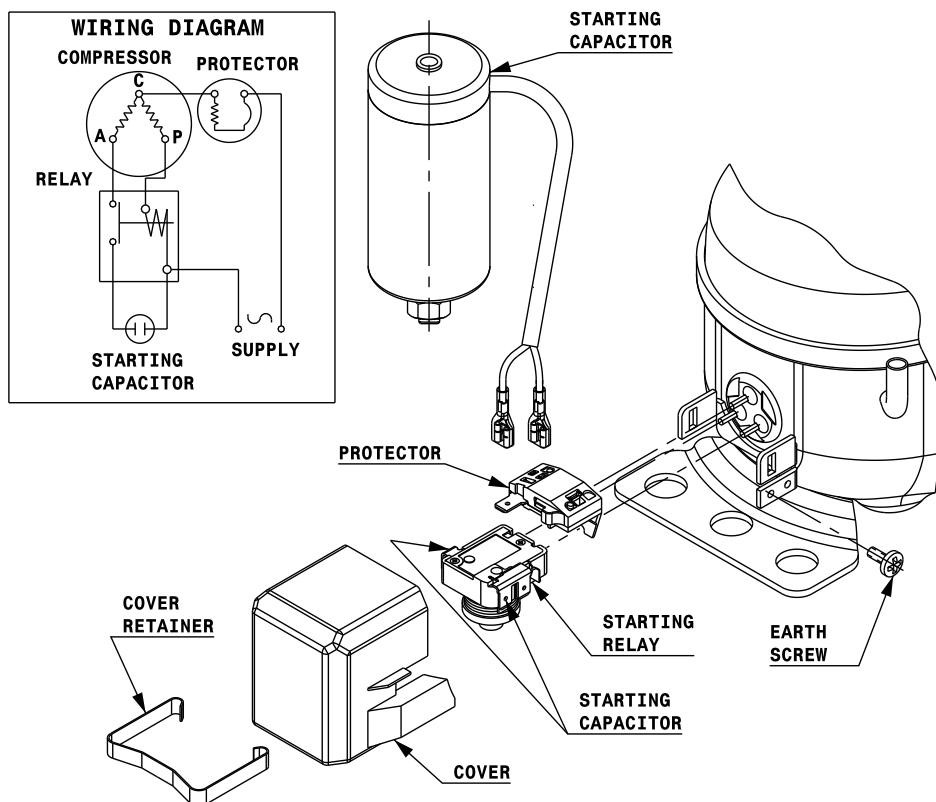




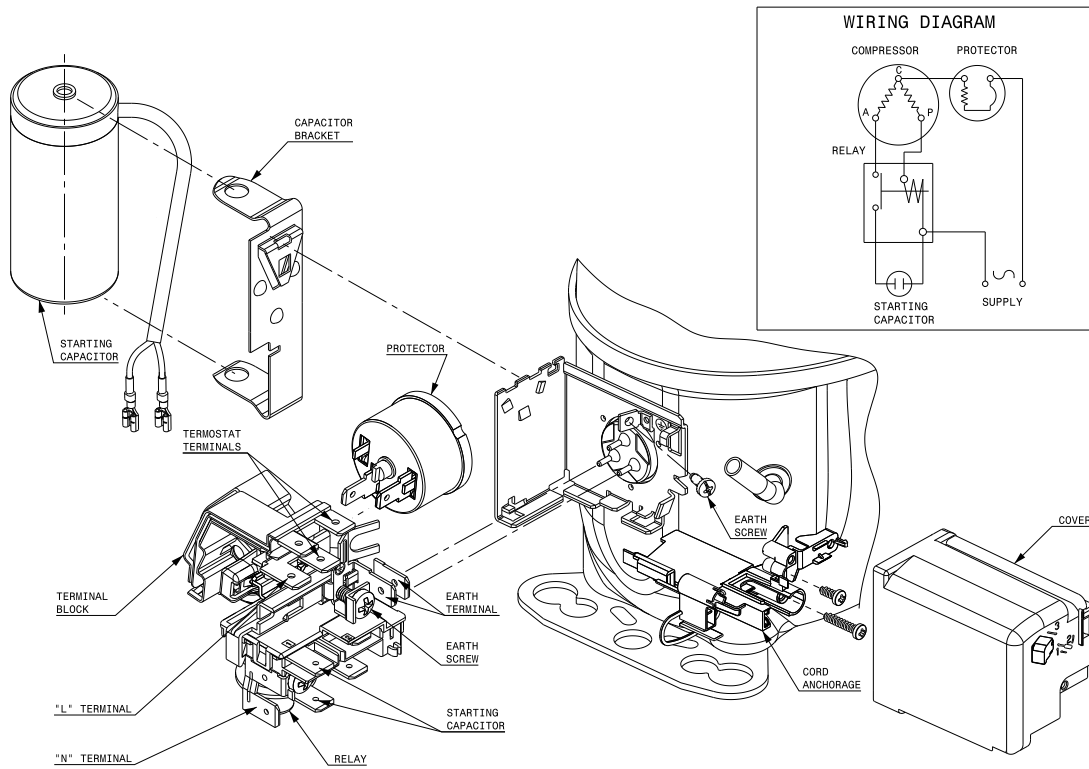
## RSCR CONNECTION



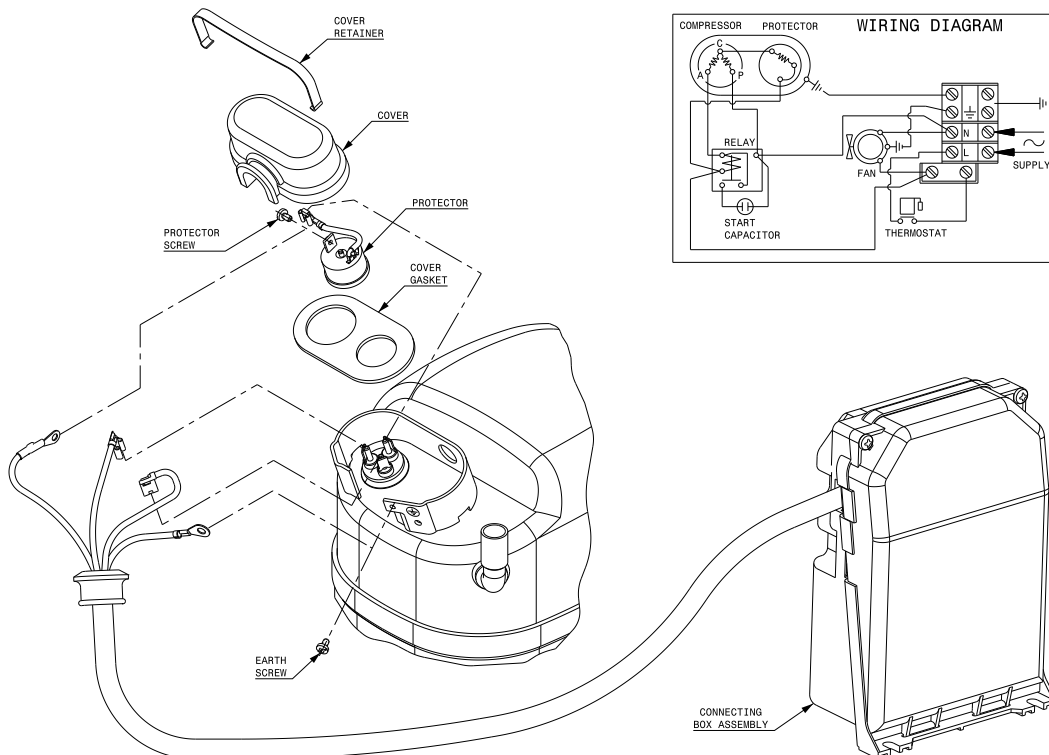
## CSIR CONNECTION Small L & B



**CSIR CONNECTION**

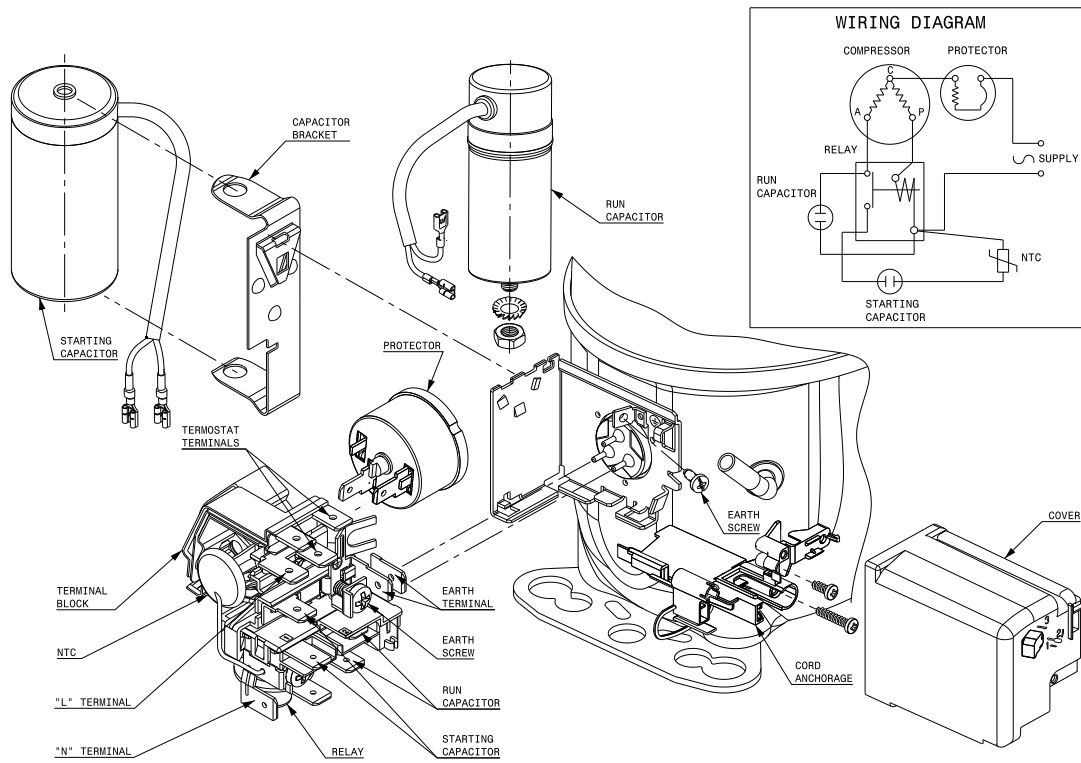


**CSIR CONNECTION (EXTERNAL CONNECTING BOX) (S range)**

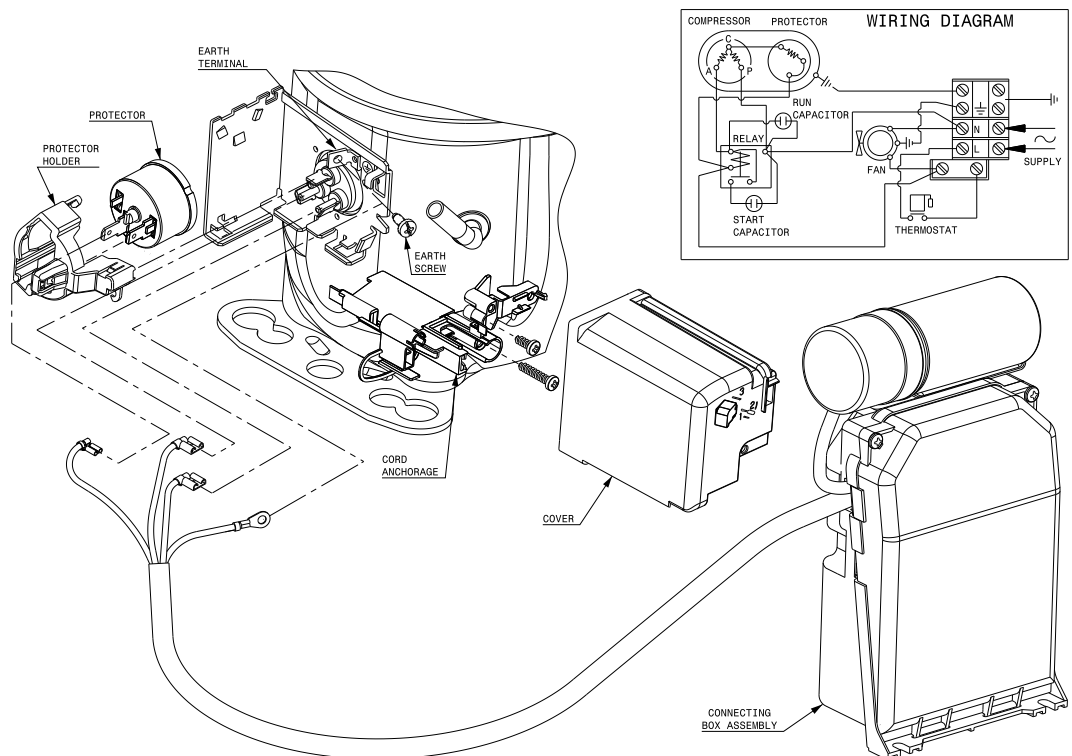




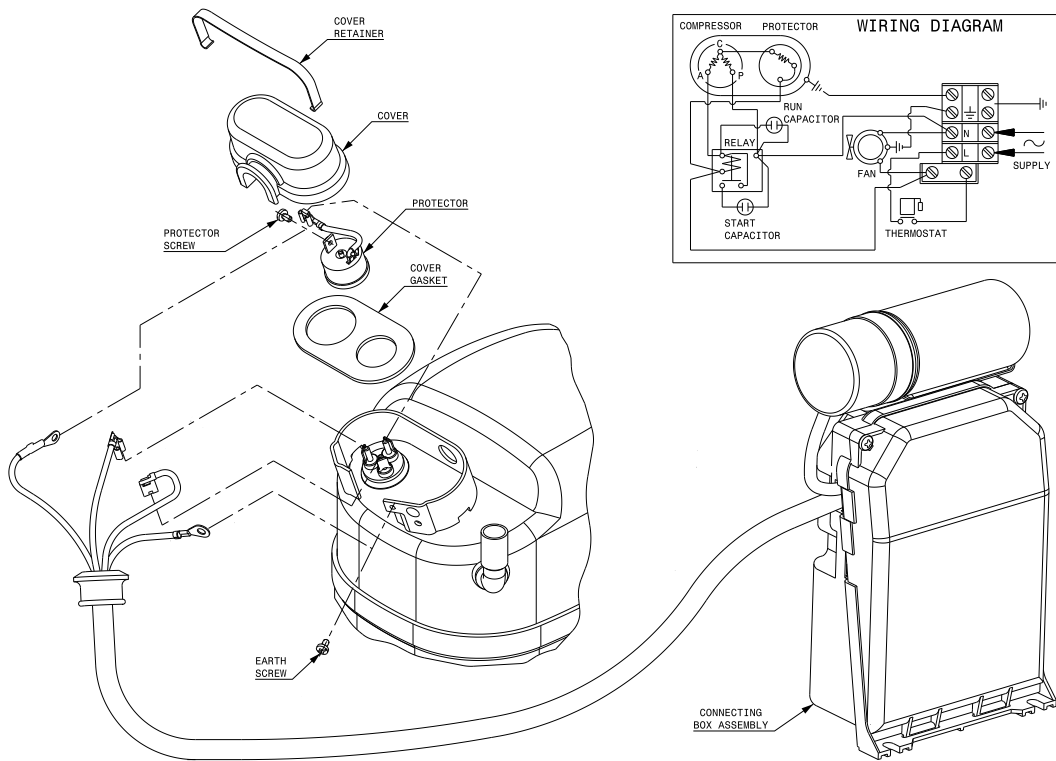
**CSR CONNECTION (CURRENT RELAY + NTC)**



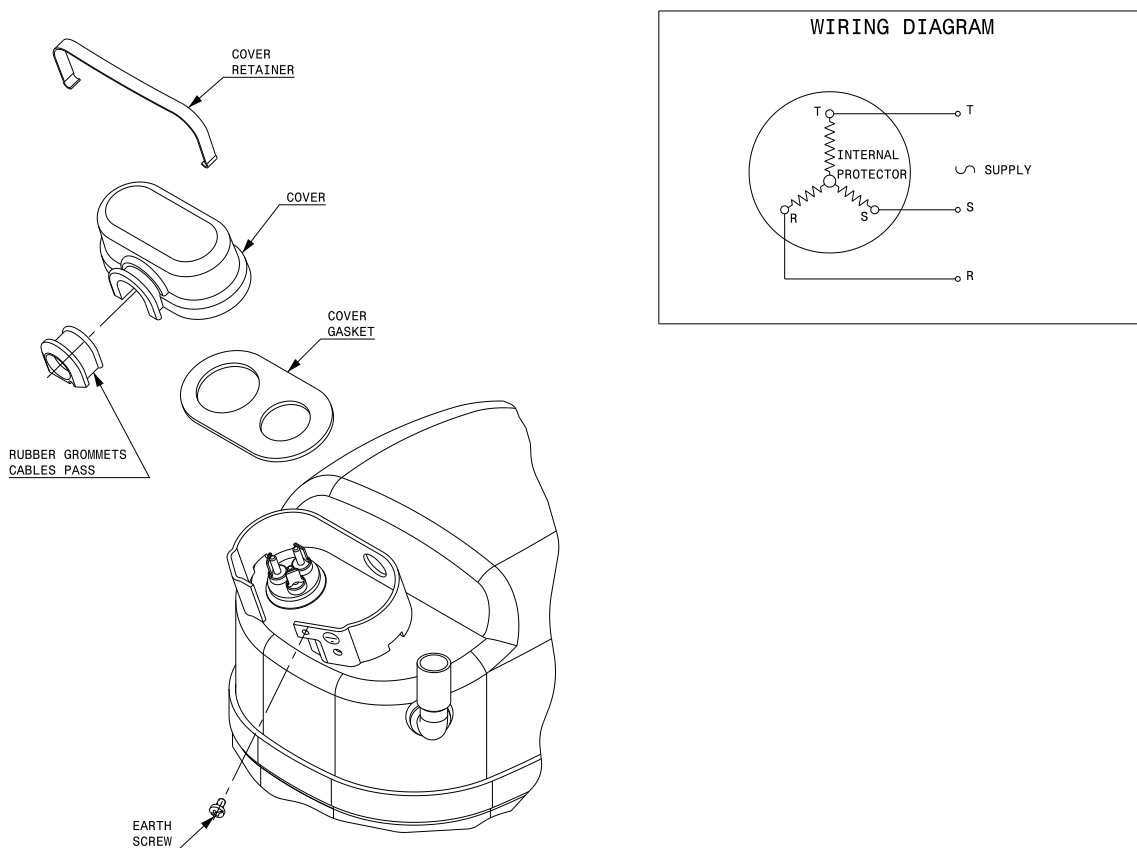
**CSR CONNECTION (EXTERNAL CONNECTING BOX) (P, X ranges)**



**CSR CONNECTION (EXTERNAL CONNECTING BOX) (S range)**



**3PH CONNECTION (S range)**



# Applications



### Glass door merchandiser



	R134a	R404A	R290
100 - 150 L	GUY60RA	ML40TB	NUY45RA
200 - 300 L	GUY80RA	ML60TB	NUY60RA
400 - 480 L	GPY12RA	MLY80RA	NUY90RA
490 - 600 L	GPY14RA	MLY90RA	NLY12RA
600 - 750 L	GPY16RA	MLY90RA	NLY12RA
750 - 1000 L	GPT18RA	MLT12RA	NPY12RA
1000 - 1400 L	GX21TB	MPT12RA	NPT14RA
1400 - 1700 L	GS26TB	MPT14RA	NPT16RA
1700 - 2000 L	GS30TB	MX18TBa	NX21TBa

PARAMETERS	
Evaporating temperature	-10°C
Internal temperature	0 a 6°C
Application	MBP / LST

### Open chest display cabinet



	R134a	R404A	R290
1 m	GPY12RA	ML80TB	NUY80RA
2 m	GPY14RA	MLY80RA	NUY90RA
3 m	GPT18RA	MLT12RA	NPY12RA
4 m	GS26TB	MX16TBa	NX18TBa

PARAMETERS	
Evaporating temperature	-10°C
Internal temperature	0 a 7°C
Application	MBP / LST

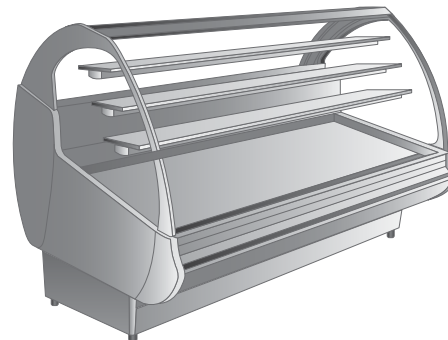
### Open display mini refrigerator



	R134a	R290
90 - 130 L	GUY60RA	NUY45RA
140 - 200 L	GUY90RA	NUY60RA

PARAMETERS	
Evaporating temperature	-10°C
Internal temperature	-5°C
Application	MBP / LST

### Bakery display cabinet



	R134a	R290
1 m	GUY60RA	NUY45RA
2 m	GUY90RA	NUY60RA
3 m	GPY12RA	NUY70RA

PARAMETERS	
Evaporating temperature	-5°C
Internal temperature	5 a 12°C
Application	MBP / LST

## Vending machine



	R134a	R290
400 L	GPY14RA	NUY90RA
500 L	GPY16RA	NPY12RA
800 L	GPT18RA	-

PARAMETERS	
Evaporating temperature	-10°C
Internal temperature	5°C
Application	HMBP / LST

## Open display refrigerator



	R134a	R290
300 L	GPY14RA	NUY90RA
400 L	GPT18RA	NPY12RA

PARAMETERS	
Evaporating temperature	-10°C
Internal temperature	-5°C
Application	MBP / LST

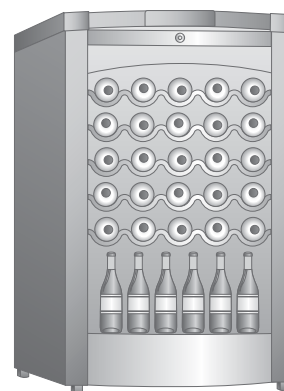
## Self service cabinet



	R134a	R290
350 - 500 L	GPY12RA	NUY90RA
500 - 700 L	GPY14RA	NUY90RA
700 - 900 L	GPT18RA	NPY12RA
900 - 1000 L	GS30TB	-

PARAMETERS	
Evaporating temperature	-10 a -5°C
Internal temperature	0 a 10°C
Application	MBP / LST

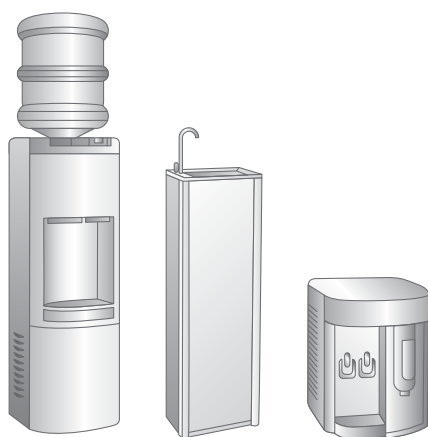
## Wine cooler



	R134a	R600a	R290
24 L	B38G	HUY70MA	NBC30RA
45 - 60 L	GUY45RA	HLY99RA	-
92 - 100 L	GUY60RA	-	NUY45RA
200 L	GUY90RA	-	NUY60RA

PARAMETERS	
Evaporating temperature	-5°C
Internal temperature	-5 a 15°C
Application	HMBP / LST

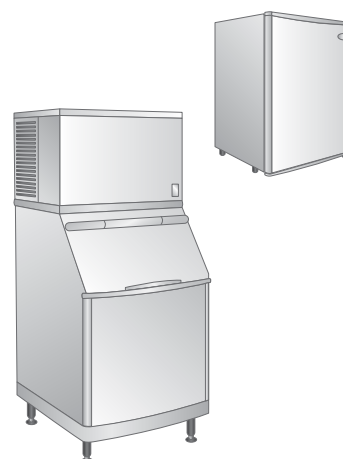
## Water dispensers



	R134a	R600a	R290
2 - 4 L	B43GL	HUY70MA	NBC30RA
5 - 7 L	GUY90RA	HLY99RA	NUY60RA
8 - 12 L	GPY12RA	-	NUY90RA
13 - 17 L	GPY16RA	-	NPY12RA

PARAMETERS	
Evaporating temperature	-10 a -5°C
Internal temperature	-10°C
Application	HMBP / LST

## Ice maker



	R134a	R290
24 - 48 kg/day	GLY45RA	NUY45RA
72 kg/day	GUY90RA	NUY70RA
100 kg/day	GPY16RA	NPY12RA
140 kg/day	GPT18RA	-
180 kg/day	GX23TG	-
240 kg/day	GS26TB	-

PARAMETERS	
Evaporating temperature	-10°C
Internal temperature	0°C
Application	HMBP / LST

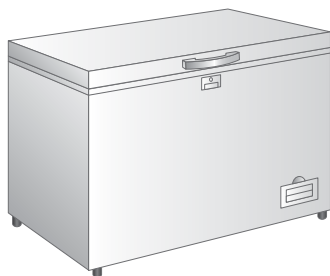
## Upright freezer



	R404A	R290
100 - 200 L	ML60FB	NUT60CA
200 - 290 L	MLY80LA	NUT70CA
300 - 380 L	MLY12LA	NPY12LA
400 - 500 L	MPT16LA	NPT18LA
500 - 600 L	MPT18LA	-
600 - 700 L	MX23FBa	-

PARAMETERS	
Evaporating temperature	-30°C
Internal temperature	-18°C
Application	LBP / LST

### Chest freezer



	R134a	R404A	R290
200 - 290 L	GLY80AA	MLY45LA	NUY45LA
300 - 380 L	GLY90AA	ML60FB	NUT55CA
400 - 480 L	GPY12AA	MLY60LA	NUT60CA
490 - 600 L	GPY16LA	MLY80LA	NUY90LA

PARAMETERS	
Evaporating temperature	-30°C
Internal temperature	-18°C
Application	LBP / LST

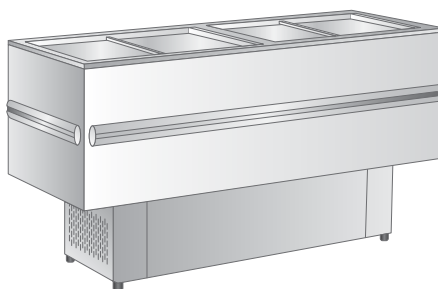
### Upright commercial freezer



	R134a	R404A	R290
300 - 380 L	GLY90AA	ML60FB	NUT55CA
380 - 450 L	GPY12AA	MLY60LA	NUT60CA
450 - 520 L	GPY16LA	MLY80LA	NUY90LA

PARAMETERS	
Evaporating temperature	-30°C
Internal temperature	-18°C
Application	LBP / LST

### Island freezer



	R404A	R290
1 - 1,5 m	MPT14LA	NPY14LA
2 m	MPT18LA	NPT18LA
3 m	MX23FBa	-
4 m	MS30FBa	-

PARAMETERS	
Evaporating temperature	-30°C
Internal temperature	-20 a -15°C
Application	LBP / LST

# Spare parts list

Model	Code	Motor	Voltage	Protector	Relay	Starting capacitor	Run capacitor
B35CA	123B8403	RSCR PTC	220-240V 50Hz	123B9562	123B9172		123B9229
B43CB	123B8405	RSIR Relay	220-240V 50Hz & 220-240V 60Hz	123B9572	123B9172		
B60C5BL	123B8424	RSCR PTC	110-120V 60Hz	123B9573	123B9174		123B9222
B60CBL	123B8411	RSIR PTC	220-240V 50Hz	123B9574	123B9172		
B60CBL	123B8423	RSIR PTC	220-240V 60Hz	123B9563	123B9172		
GUY60NRb	123B1301	CSIR Relay	115-127V 60Hz	123B9502	123B9136	123B9309	
GUY60NRc	123B1308	CSIR Relay	115-127V 60Hz	123B9498	123B9136	123B9309	
NBC22RA	123B8309	CSIR Relay	220-240V 50Hz	123B9563	123B9179	123B9323	
NBC30NR	123B8311	CSIR Relay	115-127V 60Hz	123B9567	123B9182	123B9323	
NBC30RA	123B8310	CSIR Relay	220-240V 50Hz	123B9568	123B9180	123B9323	
NBC35NA	123B8303	RSIR Relay	220-240V 50Hz	123B9557	123B9191		
NUY45NRa	123B3170	CSIR Relay	115-127V 60Hz	123B9470	123B9109	123B9320	
NUY45NRb	123B3314	CSR Relay + NTC	115-127V 60Hz	123B9470	123B9186	123B9320	123B9220
NUY60NRa	123B3312	CSIR Relay	115-127V 60Hz	123B9543	123B9122	123B9320	
NUY60NRc	123B3313	CSIR Relay	115-127V 60Hz	123B9482	123B9122	123B9320	
B22G	123B8115	RSIR PTC	220-240V 50Hz	123B9551	123B9170		
B22G5	123B8116	RSIR PTC	110-115V 60Hz	123B9559	123B9174		
B25G	123B8117	RSIR PTC	220-240V 50Hz & 220-240V 60Hz	123B9557	123B9173		
B25G5L	123B8119	CSIR Relay	110-115V 60Hz	123B9570	123B9181	123B9322	
B25GL	123B8118	CSIR Relay	220-240V 50Hz	123B9564	123B9178	123B9322	
B30G	123B8120	RSIR PTC	220-240V 50Hz	123B9560	123B9170		
B30G	123B8120	CSIR Relay	220-240V 50Hz	123B9567	123B9179	123B9322	
B30G5	123B8122	RSIR Relay	110-115V 60Hz	123B9571	123B9183		
B35C	123B8404	RSIR PTC	220-240V 50Hz	123B9552	123B9175		
B35C	123B8404	RSIR PTC	220-240V 50Hz & 220-240V 60Hz	123B9552	123B9175		
B35C5B	123B8417	RSIR PTC	110-115V 60Hz	123B9565	123B9177		
B35G5	123B8124	CSIR Relay	110-115V 60Hz	123B9571	123B9184	123B9322	
B35GL	123B8123	CSIR Relay	220-240V 50Hz	123B9566	123B9179	123B9323	
B38G	123B8125	CSIR Relay	220-240V 50Hz	123B9567	123B9179	123B9322	
B38G	123B8125	CSIR Relay	220-240V 50Hz & 220-240V 60Hz	123B9568	123B9180	123B9322	
B38G5L	123B8126	CSIR Relay	110-115V 60Hz	123B9571	123B9182	123B9322	
B38H	123B8103	RSIR PTC	220-240V 50Hz	123B9564	123B9170		
B38H	123B8103	RSIR PTC	220-240V 60Hz	123B9564	123B9170		
B38H5L	123B8111	RSIR PTC	110-120V 60Hz	123B9569	123B9177		
B43C5B	123B8421	RSIR PTC	110-115V 60Hz	123B9558	123B9174		
B43CB	123B8405	RSIR PTC	220-240V 50Hz	123B9554	123B9173		
B43CB	123B8405	RSCR PTC	220-240V 50Hz	123B9554	123B9172		123B9229
B43GL	123B8127	RSIR PTC	220-240V 50Hz	123B9561	123B9170		
B43H	123B8104	RSIR PTC	220-240V 50Hz & 220-240V 60Hz	123B9563	123B9170		
B52CL	123B8408	RSIR PTC	220-240V 50Hz	123B9555	123B9171		
B52CL	123B8408	RSIR PTC	220-240V 50Hz & 220-240V 60Hz	123B9555	123B9171		
B65CL	123B8413	RSIR PTC	220-240V 50Hz	123B9560	123B9171		
B65CL	123B8413	RSIR PTC	220-240V 50Hz	123B9556	123B9171		
GL11TB	123B1591	CSIR Relay	220-240V 50Hz	123B9436	123B9110	123B9312	
GL45AAa	123B1111	RSIR PTC	220-240V 50Hz	123B9440	123B9101		
GL45AAb	123B1112	CSIR Relay	220-240V 50Hz	123B9440	123B9106	123B9311	
GL45ADa	123B1153	RSIR PTC	115V 60Hz	123B9405	123B9102		
GL45ADb	123B1154	CSIR Relay	115V 60Hz	123B9405	123B9108	123B9309	
GL45ANa	123B1113	RSIR PTC	200-240V 50Hz & 220-230V 60Hz	123B9418	123B9101		
GL45MG	123B1704	CSIR Relay	230V 50/60Hz	123B9444	123B9112	123B9311	
GL45PB	123B1515	RSIR Relay	220-240V 50Hz	123B9404	123B9114		



## Danfoss Light Commercial Refrigeration Compressors

Model	Code	Motor	Voltage	Protector	Relay	Starting capacitor	Run capacitor
GL45PE	123B1568	RSIR Relay	115V 60Hz	123B9445	123B9115		
GL45TB	123B1516	CSIR Relay	220-240V 50Hz	123B9404	123B9111	123B9311	
GL45TE	123B1569	CSIR Relay	115V 60Hz	123B9445	123B9116	123B9309	
GL45TG	123B1517	CSIR Relay	200-240V 50Hz & 220-230V 60Hz	123B9525	123B9107	123B9311	
GL60AAa	123B1116	RSIR PTC	220-240V 50Hz	123B9418	123B9101		
GL60AAb	123B1117	CSIR Relay	220-240V 50Hz	123B9404	123B9111	123B9311	
GL60ADa	123B1155	RSIR PTC	115V 60Hz	123B9433	123B9102		
GL60ADb	123B1156	CSIR Relay	115V 60Hz	123B9425	123B9116	123B9309	
GL60ANa	123B1118	RSIR PTC	200-240V 50Hz & 220-230V 60Hz	123B9450	123B9101		
GL60ANb	123B1119	CSIR Relay	200-240V 50Hz & 220-230V 60Hz	123B9404	123B9112	123B9311	
GL60ANc	123B1120	CSIR Relay	200-240V 50Hz & 220-230V 60Hz	123B9451	123B9112	123B9311	
GL60MG	123B1705	CSIR Relay	230V 50/60Hz	123B9402	123B9107	123B9311	
GL60PB	123B1520	RSIR Relay	220-240V 50Hz	123B9439	123B9117		
GL60PE	123B1570	RSIR Relay	115V 60Hz	123B9456	123B9168		
GL60TB	123B1521	CSIR Relay	220-240V 50Hz	123B9454	123B9112	123B9311	
GL60TC	123B1523	CSIR Relay	100V 50/60Hz	123B9455	123B9118	123B9309	
GL60TE	123B1571	CSIR Relay	115V 60Hz	123B9456	123B9118	123B9309	
GL60TG	123B1522	CSIR Relay	200-240V 50Hz & 220-230V 60Hz	123B9457	123B9107	123B9311	
GL70ANa	123B1173	RSIR PTC	200-220V 50Hz & 220-230V 60Hz	123B9402	123B9101		
GL80AAa	123B1123	RSIR PTC	220-240V 50Hz	123B9461	123B9101		
GL80AAb	123B1124	CSIR Relay	220-240V 50Hz	123B9454	123B9112	123B9312	
GL80ADa	123B1157	RSIR PTC	115V 60Hz	123B9432	123B9102		
GL80ADb	123B1158	CSIR Relay	115V 60Hz	123B9462	123B9118	123B9318	
GL80ANa	123B1125	RSIR PTC	200-220V 50Hz & 220-230V 60Hz	123B9459	123B9101		
GL80ANb	123B1126	CSIR Relay	200-220V 50Hz & 220-230V 60Hz	123B9464	123B9108	123B9315	
GL80ANc	123B1127	CSIR Relay	200-220V 50Hz & 220-230V 60Hz	123B9425	123B9108	123B9315	
GL80MG	123B1706	CSIR Relay	200-220V 50Hz & 220-230V 60Hz	123B9425	123B9119	123B9312	
GL80PB	123B1526	RSIR Relay	220-240V 50Hz	123B9466	123B9120		
GL80PE	123B1574	RSIR Relay	115V 60Hz	123B9467	123B9121		
GL80TB	123B1527	CSIR Relay	220-240V 50Hz	123B9468	123B9107	123B9312	
GL80TC	123B1529	CSIR Relay	100V 50/60Hz	123B9469	123B9122	123B9318	
GL80TE	123B1575	CSIR Relay	115V 60Hz	123B9467	123B9122	123B9318	
GL80TG	123B1528	CSIR Relay	200-220V 50Hz & 220-230V 60Hz	123B9470	123B9119	123B9312	
GL90AAa	123B1130	RSIR PTC	220-240V 50Hz	123B9402	123B9101		
GL90AAb	123B1131	CSIR Relay	220-240V 50Hz	123B9444	123B9112	123B9312	
GL90ADa	123B1159	RSIR PTC	115V 60Hz	123B9471	123B9102		
GL90ADb	123B1160	CSIR Relay	115V 60Hz	123B9472	123B9122	123B9318	
GL90ANa	123B1132	RSIR PTC	200-220V 50Hz & 220-230V 60Hz	123B9474	123B9101		
GL90ANb	123B1133	CSIR Relay	200-220V 50Hz & 220-230V 60Hz	123B9425	123B9110	123B9315	
GL90ANc	123B1134	CSIR Relay	200-220V 50Hz & 220-230V 60Hz	123B9475	123B9110	123B9315	
GL90MG	123B1707	CSIR Relay	230V 50/60Hz	123B9477	123B9109	123B9312	
GL90PB	123B1532	RSIR Relay	220-240V 50Hz	123B9417	123B9123		
GL90PE	123B1578	RSIR Relay	115V 60Hz	123B9469	123B9121		
GL90TB	123B1533	CSIR Relay	220-240V 50Hz	123B9457	123B9110	123B9312	
GL90TC	123B1535	CSIR Relay	100V 50/60Hz	123B9478	123B9122	123B9318	
GL90TE	123B1579	CSIR Relay	115V 60Hz	123B9469	123B9122	123B9318	
GL90TG	123B1534	CSIR Relay	200-220V 50Hz & 220-230V 60Hz	123B9435	123B9109	123B9312	
GL99AAa	123B1165	RSIR PTC	220-240V 50Hz	123B9480	123B9101		
GL99AAb	123B1166	CSIR Relay	220-240V 50Hz	123B9444	123B9108	123B9315	
GL99ADa	123B1161	RSIR PTC	115V 60Hz	123B9471	123B9102		
GL99ADb	123B1162	CSIR Relay	115V 60Hz	123B9471	123B9122	123B9318	
GLM12LAb	123B1168	CSIR Relay	220-240V 50Hz	123B9465	123B9119	123B9312	
GLM12LAb	123B1169	CSR Relay + NTC	220-240V 50Hz	123B9465	123B9128	123B9312	123B9211

## Danfoss Light Commercial Refrigeration Compressors

Model	Code	Motor	Voltage	Protector	Relay	Starting capacitor	Run capacitor
GLT80TDC	123B1902	ECM	24-42V DC	123B9322	-		
GLT99FSN	123B1991	ECM	220-240V 50Hz	123B9483	-		
GLY12NRa	123B1304	CSIR Relay	115-127V 60Hz	123B9491	123B9122	123B9314	
GLY12NRb	123B1305	CSR Relay + NTC	115-127V 60Hz	123B9491	123B9124	123B9314	123B9216
GLY12RAa	123B1708	CSIR Relay	220-240V 50Hz	123B9549	123B9110	123B9312	
GLY12RAb	123B1709	CSR Relay + NTC	220-240V 50Hz	123B9549	123B9169	123B9312	123B9212
GLY12RGa	123B1710	CSIR Relay	200-220V 50Hz & 220-230V 60Hz	123B9502	123B9110	123B9312	
GLY12RGb	123B1711	CSR Relay + NTC	200-220V 50Hz & 220-230V 60Hz	123B9502	123B9169	123B9312	123B9212
GLY12RRa	123B1601	CSIR Relay	115-127V 60Hz	123B9491	123B9134	123B9318	
GLY12RRb	123B1599	CSR Relay + NTC	115-127V 60Hz	123B9491	123B9141	123B9318	123B9216
GLY45AAa	123B1109	RSIR PTC	220-240V 50Hz	123B9486	123B9101		
GLY45AAb	123B1110	RSCR PTC	220-240V 50Hz	123B9486	123B9101		123B9209
GLY45RAa	123B1513	CSIR Relay	220-240V 50Hz	123B9404	123B9111	123B9311	
GLY45RAb	123B1514	CSR Relay + NTC	220-240V 50Hz	123B9404	123B9125	123B9311	123B9210
GLY60AAa	123B1114	RSIR PTC	220-240V 50Hz	123B9516	123B9101		
GLY60AAb	123B1115	RSCR PTC	220-240V 50Hz	123B9516	123B9101		123B9210
GLY60RAa	123B1518	CSIR Relay	220-240V 50Hz	123B9454	123B9112	123B9311	
GLY60RAb	123B1519	CSR Relay + NTC	220-240V 50Hz	123B9454	123B9126	123B9311	123B9210
GLY70AAa	123B1170	RSIR PTC	220-240V 50Hz	123B9576	123B9101		
GLY70AAb	123B1171	RSCR PTC	220-240V 50Hz	123B9576	123B9101		123B9210
MX16TE	123B2548	CSR Box Size X	115V 60Hz	123B9714	123B9190	123B9324	123B9230
MX18TE	123B2545	CSR Box Size X	115V 60Hz	123B9714	123B9190	123B9324	123B9230
GLY80AAa	123B1121	RSIR PTC	220-240V 50Hz	123B9402	123B9101		
GLY80AAb	123B1122	RSCR PTC	220-240V 50Hz	123B9402	123B9101		123B9211
GLY80RAa	123B1524	CSIR Relay	220-240V 50Hz	123B9488	123B9107	123B9312	
GLY80RAb	123B1525	CSR Relay + NTC	220-240V 50Hz	123B9488	123B9127	123B9312	123B9211
GLY80RDa	123B1572	CSIR Relay	115V 60Hz	123B9472	123B9122	123B9313	
GLY80RDb	123B1573	CSR Relay + NTC	115V 60Hz	123B9489	123B9124	123B9313	123B9216
GLY90AAa	123B1128	RSIR PTC	220-240V 50Hz	123B9408	123B9101		
GLY90AAb	123B1129	RSCR PTC	220-240V 50Hz	123B9408	123B9101		123B9211
GLY90RAa	123B1530	CSIR Relay	220-240V 50Hz	123B9435	123B9119	123B9312	
GLY90RAb	123B1531	CSR Relay + NTC	220-240V 50Hz	123B9466	123B9128	123B9312	123B9211
GLY90RDa	123B1576	CSIR Relay	115V 60Hz	123B9491	123B9129	123B9313	
GLY90RDb	123B1577	CSR Relay + NTC	115V 60Hz	123B9472	123B9130	123B9313	123B9216
GP12CB	123B1139	RSIR Relay	220-240V 50Hz	123B9465	123B9123		
GP12FB	123B1140	CSIR Relay	220-240V 50Hz	123B9465	123B9110	123B9312	
GP12PB	123B1592	RSIR Relay	220-240V 50Hz	123B9436	123B9131		
GP12PE	123B1582	RSIR Relay	115V 60Hz	123B9494	123B9132		
GP12TB	123B1593	CSIR Relay	220-240V 50Hz	123B9436	123B9110	123B9312	
GP12TE	123B1583	CSIR Relay	115V 60Hz	123B9494	123B9134	123B9318	
GP12TG	123B1594	CSIR Relay	200-220V 50Hz & 220-230V 60Hz	123B9495	123B9116	123B9312	
GP12YG	123B1802	CSIR Relay	230V 50/60Hz	123B9472	123B9136	123B9312	
GP14CB	123B1141	RSIR Relay	220-240V 50Hz	123B9466	123B9131		
GP14CG	123B1142	RSIR Relay	200-220V 50Hz & 230V 60Hz	123B9470	123B9115	-	
GP14FB	123B1143	CSIR Relay	220-240V 50Hz	123B9417	123B9119	123B9316	
GP14FC	123B1144	CSIR Relay	100V 50/60Hz	123B9494	123B9134	123B9314	
GP14FE	123B1163	CSIR Relay	115V 60Hz	123B9494	123B9134	123B9314	
GP14PB	123B1538	RSIR Relay	220-240V 50Hz	123B9455	123B9135		
GP14PE	123B1586	RSIR Relay	115V 60Hz	123B9496	123B9132		
GP14TB	123B1712	CSIR Relay	220-240V 50Hz	123B9455	123B9116	123B9312	
GP14TE	123B1587	CSIR Relay	115V 60Hz	123B9496	123B9134	123B9318	
GP14TG	123B1539	CSIR Relay	200-220V 50Hz & 220-230V 60Hz	123B9497	123B9136	123B9312	
GP14YB	123B1803	RSCR PTC	220-240V 50Hz	123B9432	123B9113		123B9219

## Danfoss Light Commercial Refrigeration Compressors

Model	Code	Motor	Voltage	Protector	Relay	Starting capacitor	Run capacitor
GP16CB	123B1147	RSIR Relay	220-240V 50Hz	123B9466	123B9115		
GP16FB	123B1148	CSIR Relay	220-240V 50Hz	123B9466	123B9116	123B9316	
GP16FC	123B1149	CSIR Relay	100V 50/60Hz	123B9494	123B9134	123B9314	
GP16FE	123B1164	CSIR Relay	115V 60Hz	123B9494	123B9134	123B9314	
GP16TB	123B1713	CSIR Relay	220-240V 50Hz	123B9498	123B9136	123B9316	
GP16TE	123B1718	CSIR Relay	115V 60Hz	123B9496	123B9137	123B9318	
GP16TG	123B1714	CSIR Relay	200-220V 50Hz & 230V 60Hz	123B9482	123B9118	123B9316	
GP16YGb	123B1805	CSR Relay + NTC	230V 50/60Hz	123B9494	123B9139	123B9312	123B9222
GPM16RA	123B1719	CSIR Relay	220-240V 50Hz	123B9455	123B9118	123B9315	
GPT16RG	123B1715	CSR Relay + NTC	200-220V 50Hz & 220-230V 60Hz	123B9498	123B9139	123B9316	123B9225
GPT18RA	123B1716	CSR Relay + NTC	220-240V 50Hz	123B9499	123B9139	123B9312	123B9225
GPY12AAa	123B1135	RSIR PTC	220-240V 50Hz	123B9408	123B9101		
GPY12AAb	123B1136	RSCR PTC	220-240V 50Hz	123B9408	123B9101		123B9212
GPY12LAa	123B1137	CSIR Relay	220-240V 50Hz	123B9421	123B9109	123B9315	
GPY12LAb	123B1138	CSR Relay + NTC	220-240V 50Hz	123B9421	123B9140	123B9315	123B9222
GPY12RAa	123B1536	CSIR Relay	220-240V 50Hz	123B9502	123B9116	123B9312	
GPY12RAb	123B1537	CSR Relay + NTC	220-240V 50Hz	123B9470	123B9133	123B9312	123B9212
GPY12RDa	123B1580	CSIR Relay	115V 60Hz	123B9494	123B9134	123B9314	
GPY12RDb	123B1581	CSR Relay + NTC	115V 60Hz	123B9491	123B9141	123B9314	123B9216
GPY14NDa	123B1311	CSIR Relay	115V 60Hz	123B9494	123B9138	123B9320	
GPY14NDb	123B1312	CSR Relay + NTC	115V 60Hz	123B9494	123B9143	123B9320	123B9220
GPY14NGa	123B1313	CSIR Relay	200-220V 50Hz&220-230V 60Hz	123B9502	123B9136	123B9316	
GPY14NGb	123B1314	CSR Relay + NTC	200-220V 50Hz&220-230V 60Hz	123B9502	123B9151	123B9316	123B9212
GPY14RAa	123B1540	CSIR Relay	220-240V 50Hz	123B9499	123B9116	123B9315	
GPY14RAb	123B1541	CSR Relay + NTC	220-240V 50Hz	123B9498	123B9133	123B9315	123B9222
GPY14RDa	123B1584	CSIR Relay	115-127V 60Hz	123B9496	123B9138	123B9314	
GPY14RDb	123B1585	CSR Relay + NTC	115-127V 60Hz	123B9496	123B9143	123B9314	123B9217
GPY16LAa	123B1145	CSIR Relay	220-240V 50Hz	123B9466	123B9109	123B9312	
GPY16LAb	123B1146	CSR Relay + NTC	220-240V 50Hz	123B9466	123B9140	123B9312	123B9222
GPY16RAa	123B1542	CSIR Relay	220-240V 50Hz	123B9499	123B9118	123B9315	
GPY16RAb	123B1543	CSR Relay + NTC	220-240V 50Hz	123B9499	123B9139	123B9315	123B9222
GPY16RDa	123B1588	CSIR Relay	115-127V 60Hz	123B9496	123B9138	123B9314	
GPY16RDb	123B1589	CSR Relay + NTC	115-127V 60Hz	123B9496	123B9143	123B9314	123B9217
GS26T3	123B1551	3ph Size S	400-440V 50/60Hz 3ph	123B9505	-		
GS26TB	123B1549	CSIR Box Size S	220-240V 50Hz	123B9550	123B9146	123B9304	
GS26TG	123B1550	CSIR Box Size S	200-220V 50Hz & 220-230V 60Hz	123B9507	123B9146	123B9304	
GS30TB	123B1552	CSR Box Size S	220-240V 50Hz	123B9506	123B9146	123B9302	123B9219
GS30TG	123B1553	CSR Box Size S	200-220V 50Hz & 220-230V 60Hz	123B9507	123B9147	123B9304	123B9205
MLY80LAb	123B2114	CSR Relay + NTC	220-240V 50Hz	123B9714	123B9128	123B9312	123B9222
GS34TF	123B1590	CSR Box Size S	220-230V 60Hz	123B9509	123B9147	123B9304	123B9205
GS34TG	123B1614	CSR Box Size S	200-220V 50Hz & 220-230V 60Hz	123B9507	123B9147	123B9304	123B9205
GUY60RAa	123B1608	CSIR Relay	220-240V 50Hz	123B9414	123B9112	123B9311	
GUY60RAb	123B1609	CSR Relay + NTC	220-240V 50Hz	123B9414	123B9126	123B9311	123B9211
GUY70NRb	123B1307	CSIR Relay	115-127V 60Hz	123B9499	123B9118	123B9320	
GUY70NRc	123B1309	CSIR Relay	115-127V 60Hz	123B9497	123B9118	123B9320	
GUY72RCa	123B1617	CSIR Relay	100V 50/60Hz	123B9491	123B9118	123B9320	
GUY72RCb	123B1618	CSR Relay + NTC	100V 50/60Hz	123B9491	123B9150	123B9320	123B9216
GUY80NRb	123B1303	CSIR Relay	115-127V 60Hz	123B9498	123B9118	123B9309	
GUY80NRc	123B1310	CSIR Relay	115-127V 60Hz	123B9497	123B9118	123B9309	
GUY80RAa	123B1610	CSIR Relay	220-240V 50Hz	123B9488	123B9107	123B9311	
GUY80RAb	123B1611	CSR Relay + NTC	220-240V 50Hz	123B9488	123B9127	123B9311	123B9211
GUY90RAa	123B1612	CSIR Relay	220-240V 50Hz	123B9468	123B9119	123B9311	
GUY90RAb	123B1613	CSR Relay + NTC	220-240V 50Hz	123B9468	123B9128	123B9311	123B9211
GX18TB	123B1544	CSIR Relay	220-240V 50Hz	123B9482	123B9122	123B9315	

## Danfoss Light Commercial Refrigeration Compressors

Model	Code	Motor	Voltage	Protector	Relay	Starting capacitor	Run capacitor
GX18TG	123B1545	CSIR Relay	200-220V 50Hz & 220-230V 60Hz	123B9489	123B9129	123B9315	
GX21FB	123B1167	CSIR Relay	220-240V 50Hz	123B9498	123B9136	123B9315	
GX21TB	123B1546	CSIR Relay	220-240V 50Hz	123B9472	123B9129	123B9316	
GX23TB	123B1547	CSIR Relay	220-240V 50Hz	123B9491	123B9129	123B9316	
GX23TG	123B1548	CSIR Relay	200-220V 50Hz & 220-230V 60Hz	123B9496	123B9134	123B9316	
HD40AA	123B4101	RSIR PTC	220-240V 50Hz	123B9401	123B9101		
HD40MBa	123B4501	RSIR PTC	220-240V 50Hz	123B9511	123B9101		
HLY45AAa	123B4102	RSIR PTC	220-240V 50Hz	123B9512	123B9101		
HLY45AAb	123B4103	RSCR PTC	220-240V 50Hz	123B9512	123B9101		123B9209
HLY55AAa	123B4104	RSIR PTC	220-240V 50Hz	123B9513	123B9101		
HLY55AAb	123B4105	RSCR PTC	220-240V 50Hz	123B9513	123B9101		123B9209
HLY55MAa	123B4502	RSIR PTC	220-240V 50Hz	123B9407	123B9101		
HLY55MAb	123B4503	RSCR PTC	220-240V 50Hz	123B9407	123B9101		123B9209
HLY70AAa	123B4106	RSIR PTC	220-240V 50Hz	123B9515	123B9101		
HLY70AAb	123B4107	RSCR PTC	220-240V 50Hz	123B9515	123B9101		123B9209
HLY70MAa	123B4507	RSIR PTC	220-240V 50Hz	123B9458	123B9101		
HLY70MAb	123B4508	RSCR PTC	220-240V 50Hz	123B9458	123B9101		123B9209
HLY80AAa	123B4108	RSIR PTC	220-240V 50Hz	123B9486	123B9101		
HLY80AAb	123B4109	RSCR PTC	220-240V 50Hz	123B9486	123B9101		123B9209
HLY90AAa	123B4110	RSIR PTC	220-240V 50Hz	123B9407	123B9101		
HLY90AAb	123B4111	RSCR PTC	220-240V 50Hz	123B9407	123B9101		123B9210
HLY99AAa	123B4112	RSIR PTC	220-240V 50Hz	123B9407	123B9101		
HLY99AAb	123B4113	RSCR PTC	220-240V 50Hz	123B9407	123B9101		123B9210
HLY99RAa	123B4513	CSIR Relay	220-240V 50Hz	123B9439	123B9111	123B9312	
HLY99RAb	123B4514	CSR Relay + NTC	220-240V 50Hz	123B9439	123B9125	123B9312	123B9211
HPY12AAa	123B4114	RSIR PTC	220-240V 50Hz	123B9458	123B9101		
HPY12AAb	123B4115	RSCR PTC	220-240V 50Hz	123B9458	123B9101		123B9210
HPY12AGa	123B4116	RSIR PTC	200-220V 50Hz & 220-230V 60Hz	123B9461	123B9101		
HPY12AGb	123B4117	RSCR PTC	200-220V 50Hz & 220-230V 60Hz	123B9461	123B9101		123B9210
HPY12RAa	123B4515	CSIR Relay	220-240V 50Hz	123B9454	123B9107	123B9312	
HPY12RAb	123B4516	CSR Relay + NTC	220-240V 50Hz	123B9454	123B9127	123B9312	123B9212
HPY14AAa	123B4118	RSIR PTC	220-240V 50Hz	123B9461	123B9101		
HPY14AAb	123B4119	RSCR PTC	220-240V 50Hz	123B9516	123B9101		123B9211
HPY14AJa	123B4120	RSIR PTC	100V 50/60Hz	123B9517	123B9102		
HPY14AJb	123B4121	RSCR PTC	100V 50/60Hz	123B9517	123B9102		123B9217
HPY14RAa	123B4517	CSIR Relay	220-240V 50Hz	123B9465	123B9107	123B9312	
HPY14RAb	123B4518	CSR Relay + NTC	220-240V 50Hz	123B9465	123B9127	123B9312	123B9212
HPY16AAa	123B4122	RSIR PTC	220-240V 50Hz	123B9480	123B9101		
HPY16AAb	123B4123	RSCR PTC	220-240V 50Hz	123B9480	123B9101		123B9211
HPY16RAa	123B4519	CSIR Relay	220-240V 50Hz	123B9457	123B9107	123B9312	
HPY16RAb	123B4520	CSR Relay + NTC	220-240V 50Hz	123B9457	123B9127	123B9312	123B9212
HUY55MAa	123B4505	RSIR PTC	220-240V 50Hz	123B9515	123B9101		
HUY55MAb	123B4506	RSCR PTC	220-240V 50Hz	123B9515	123B9101		123B9209
HUY70MAa	123B4511	RSIR PTC	220-240V 50Hz	123B9541	123B9101		
HUY70MAb	123B4512	RSCR PTC	220-240V 50Hz	123B9541	123B9101		123B9209
L22CL	123B8401	RSIR PTC	220-240V 50Hz	123B9562	123B9175		
L22HL	123B8101	RSIR PTC	220-240V 50Hz	123B9562	123B9170		
L30CL	123B8402	RSIR PTC	220-240V 50Hz & 220-240V 60Hz	123B9553	123B9175		
L30HL	123B8102	RSIR PTC	220-240V 50Hz & 220-240V 60Hz	123B9557	123B9170		
L40TN	123B5522	CSIR Relay	220-240V 50Hz	123B9451	123B9105	123B9311	
L45TN	123B5502	CSIR Relay	200-220V 50Hz & 230V 60Hz	123B9417	123B9108	123B9311	
L45TN	123B5501	CSIR Relay	220-240V 50Hz	123B9451	123B9105	123B9311	
L57TN	123B5503	CSIR Relay	200-220V 50Hz & 230V 60Hz	123B9436	123B9119	123B9311	
L57TNb	123B5505	CSIR Relay	220-240V 50Hz	123B9464	123B9108	123B9311	

## Danfoss Light Commercial Refrigeration Compressors

Model	Code	Motor	Voltage	Protector	Relay	Starting capacitor	Run capacitor
L76TN	123B5507	CSIR Relay	200-220V 50Hz & 230V 60Hz	123B9455	123B9109	123B9312	
L76TN	123B5506	CSIR Relay	220-240V 50Hz	123B9502	123B9110	123B9312	
L88TN	123B5518	CSIR Relay	115-127V 60Hz	123B9496	123B9134	123B9314	
L88TN	123B5509	CSIR Relay	200-220V 50Hz & 230V 60Hz	123B9469	123B9116	123B9312	
L88TN	123B5508	CSIR Relay	220-240V 50Hz	123B9455	123B9116	123B9312	
ML40TB	123B2501	CSIR Relay	220-240V 50Hz	123B9417	123B9107	123B9311	
ML40TG	123B2502	CSIR Relay	200-240V 50Hz & 220-230V 60Hz	123B9464	123B9108	123B9311	
ML45FB	123B2103	CSIR Relay	220-240V 50Hz	123B9439	123B9112	123B9311	
ML45FG	123B2104	CSIR Relay	200-240V 50Hz & 220-230V 60Hz	123B9439	123B9107	123B9311	
ML45FR	123B2160	CSIR Relay	115-127V 60Hz	123B9499	123B9136	123B9309	
ML45TB	123B2503	CSIR Relay	220-240V 50Hz	123B9417	123B9107	123B9311	
ML45TG	123B2504	CSIR Relay	200-240V 50Hz & 220-230V 60Hz	123B9470	123B9108	123B9311	
ML60FB	123B2107	CSIR Relay	220-240V 50Hz	123B9454	123B9107	123B9311	
ML60FG	123B2108	CSIR Relay	200-240V 50Hz & 220-230V 60Hz	123B9466	123B9119	123B9311	
ML60FR	123B2143	CSIR Relay	115-127V 60Hz	123B9482	123B9118	123B9309	
ML60TB	123B2507	CSIR Relay	220-240V 50Hz	123B9464	123B9108	123B9311	
ML60TG	123B2508	CSIR Relay	200-220V 50Hz & 230V 60Hz	123B9436	123B9110	123B9311	
ML60TR	123B2529	CSIR Relay	115-127V 60Hz	123B9472	123B9122	123B9318	
ML80FB	123B2111	CSIR Relay	220-240V 50Hz	123B9466	123B9109	123B9312	
ML80FG	123B2112	CSIR Relay	200-220V 50Hz & 220-230V 60Hz	123B9502	123B9136	123B9312	
ML80FR	123B2146	CSIR Relay	115-127V 60Hz	123B9494	123B9129	123B9318	
ML80TB	123B2511	CSIR Relay	220-240V 50Hz	123B9436	123B9110	123B9312	
ML80TG	123B2512	CSIR Relay	200-240V 50Hz & 220-230V 60Hz	123B9455	123B9116	123B9312	
ML90FB	123B2115	CSIR Relay	220-240V 50Hz	123B9523	123B9109	123B9312	
ML90FG	123B2116	CSIR Relay	200-220V 50Hz & 230V 60Hz	123B9502	123B9136	123B9312	
ML90FR	123B2147	CSIR Relay	115-127V 60Hz	123B9494	123B9134	123B9318	
ML90TB	123B2515	CSIR Relay	220-240V 50Hz	123B9455	123B9116	123B9312	
ML90TG	123B2516	CSIR Relay	200-220V 50Hz & 230V 60Hz	123B9482	123B9136	123B9312	
MLT12RA	123B2540	CSR Relay + NTC	220-240V 50Hz	123B9495	123B9151	123B9315	123B9219
MLT12RG	123B2532	CSR Relay + NTC	200-220V 50Hz & 220-230V 60Hz	123B9489	123B9151	123B9316	123B9215
MLT90CD	123B2149	RSCR PTC	115V 60Hz	123B9432	123B9102	-	123B9216
MLT90CDc	123B2150	CSR Relay + NTC	115V 60Hz	123B9472	123B9130	123B9313	123B9216
MLT90LD	123B2148	CSR Relay + NTC	115V 60Hz	123B9472	123B9130	123B9313	123B9216
MLY12LAa	123B2119	CSIR Relay	220-240V 50Hz	123B9502	123B9116	123B9312	
MLY12LAB	123B2120	CSR Relay + NTC	220-240V 50Hz	123B9502	123B9133	123B9312	123B9222
MLY12Lfa	123B2179	CSIR Relay	208-230V 60Hz	123B9498	123B9122	123B9312	
MLY12Lfb	123B2180	CSR Relay + NTC	208-230V 60Hz	123B9498	123B9160	123B9312	123B9212
MLY12Lga	123B2121	CSIR Relay	200-220V 50Hz & 230V 60Hz	123B9498	123B9122	123B9321	
MLY12Lgb	123B2122	CSR Relay + NTC	200-220V 50Hz & 230V 60Hz	123B9498	123B9160	123B9321	123B9222
MLY12Lra	123B2181	CSIR Relay	115-127V 60Hz	123B9527	123B9137	123B9314	
MLY12Lrb	123B2182	CSR Relay + NTC	115-127V 60Hz	123B9527	123B9187	123B9314	123B9216
MLY40AAa	123B2101	RSIR PTC	220-240V 50Hz	123B9461	123B9101		
MLY40AAb	123B2102	RSCR PTC	220-240V 50Hz	123B9461	123B9101		123B9211
MLY45LAa	123B2105	CSIR Relay	220-240V 50Hz	123B9431	123B9112	123B9311	
MLY45LAB	123B2106	CSR Relay + NTC	220-240V 50Hz	123B9431	123B9126	123B9311	123B9211
MLY45Lra	123B2141	CSIR Relay	115-127V 60Hz	123B9499	123B9136	123B9309	
MLY45Lrb	123B2142	CSR Relay + NTC	115-127V 60Hz	123B9499	123B9148	123B9309	123B9216
MLY60LAa	123B2109	CSIR Relay	220-240V 50Hz	123B9454	123B9107	123B9311	
MLY60LAB	123B2110	CSR Relay + NTC	220-240V 50Hz	123B9454	123B9127	123B9311	123B9211
MLY60Lda	123B2144	CSIR Relay	115V 60Hz	123B9482	123B9118	123B9313	
MLY60Ldb	123B2145	CSR Relay + NTC	115V 60Hz	123B9499	123B9150	123B9313	123B9216
MLY60RAa	123B2505	CSIR Relay	220-240V 50Hz	123B9502	123B9119	123B9311	
MLY60Rab	123B2506	CSR Relay + NTC	220-240V 50Hz	123B9470	123B9128	123B9311	123B9212
MLY60RDa	123B2527	CSIR Relay	115V 60Hz	123B9491	123B9122	123B9313	

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Model	Code	Motor	Voltage	Protector	Relay	Starting capacitor	Run capacitor
MLY60RDb	123B2528	CSR Relay + NTC	115V 60Hz	123B9472	123B9124	123B9313	123B9216
MLY80LAa	123B2113	CSIR Relay	220-240V 50Hz	123B9470	123B9119	123B9312	
NUT55LRa	123B3147	CSIR Relay	115-127V 60Hz	123B9714	123B9116	123B9303	
MLY80RAa	123B2509	CSIR Relay	220-240V 50Hz	123B9498	123B9116	123B9315	
MLY80RAb	123B2510	CSR Relay + NTC	220-240V 50Hz	123B9502	123B9133	123B9315	123B9222
MLY80RDa	123B2530	CSIR Relay	115V 60Hz	123B9494	123B9134	123B9314	
MLY80RDb	123B2531	CSR Relay + NTC	115V 60Hz	123B9491	123B9141	123B9314	123B9216
MLY90LAa	123B2117	CSIR Relay	220-240V 50Hz	123B9470	123B9109	123B9315	
MLY90LAb	123B2118	CSR Relay + NTC	220-240V 50Hz	123B9470	123B9140	123B9315	123B9222
MLY90RAa	123B2513	CSIR Relay	220-240V 50Hz	123B9499	123B9116	123B9315	
MLY90RAb	123B2514	CSR Relay + NTC	220-240V 50Hz	123B9498	123B9133	123B9315	123B9222
MP12FB	123B2165	CSIR Relay	220-240V 50Hz	123B9435	123B9116	123B9312	
MP12FG	123B2166	CSIR Relay	200-220V 50Hz & 220-230V 60Hz	123B9499	123B9136	123B9315	
MP12FR	123B2151	CSIR Relay	115-127V 60Hz	123B9496	123B9134	123B9318	
NUT55LRb	123B3148	CSR Relay + NTC	115-127V 60Hz	123B9714	123B9189	123B9303	123B9216
MP12TG	123B2517	CSR Box	200-220V 50Hz & 220-230V 60Hz	123B9482	123B9153	123B9307	123B9222
MP14FB	123B2124	CSIR Relay	220-240V 50Hz	123B9455	123B9136	123B9316	
MP14FE	123B2154	CSIR Relay	115V 60Hz	123B9496	123B9138	123B9318	
MP14FG	123B2125	CSIR Relay	200-220V 50Hz & 230V 60Hz	123B9498	123B9118	123B9316	
MPT12CD	123B2153	RSCR PTC	115V 60Hz	123B9471	123B9102	123B9322	123B9216
MPT12LA	123B2123	CSR Relay + NTC	220-240V 50Hz	123B9470	123B9133	123B9312	123B9222
MPT12LD	123B2152	CSR Relay + NTC	115V 60Hz	123B9527	123B9141	123B9314	123B9216
MPT12RA	123B2518	CSR Relay + NTC	220-240V 50Hz	123B9495	123B9151	123B9315	123B9215
MPT12RG	123B2703	CSR Relay + NTC	200-220V 50Hz & 220-230V 60Hz	123B9489	123B9151	123B9316	123B9215
MPT14LA	123B2126	CSR Relay + NTC	220-240V 50Hz	123B9498	123B9151	123B9312	123B9222
MPT14LD	123B2155	CSR Relay + NTC	115V 60Hz	123B9496	123B9143	123B9314	123B9227
MPT14LF	123B2156	CSR Relay + NTC	208-230V 60Hz	123B9498	123B9139	123B9315	123B9219
MPT14RA	123B2704	CSR Relay + NTC	220-240V 50Hz	123B9482	123B9139	123B9315	123B9226
MPT16LA	123B2127	CSR Relay + NTC	220-240V 50Hz	123B9502	123B9151	123B9316	123B9219
MPT18LA	123B2128	CSR Relay + NTC	220-240V 50Hz	123B9497	123B9139	123B9316	123B9219
MS18T3	123B2520	3ph Size S	400-440V 50/60Hz 3ph	123B9505	-		
MS22T3	123B2522	3ph Size S	400-440V 50/60Hz 3ph	123B9505	-		
MS22TB	123B2521	CSR Box Size S	220-240V 50Hz	123B9507	123B9154	123B9302	123B9215
MS26F3	123B2136	3ph Size S	400-440V 50/60Hz 3ph	123B9505	-		
MS26FB	123B2134	CSR Box Size S	220-240V 50Hz	123B9550	123B9155	123B9304	123B9219
MS26FF	123B2157	CSR Box Size S	208-230V 60Hz	123B9529	123B9153	123B9304	123B9208
MS26FG	123B2135	CSR Box Size S	200-220V 50Hz & 230V 60Hz	123B9530	123B9153	123B9304	123B9208
MS26T3	123B2525	3ph Size S	400-440V 50/60Hz 3ph	123B9531	-		
MS26TB	123B2523	CSR Box Size S	220-240V 50Hz	123B9507	123B9154	123B9304	123B9215
MS26TG	123B2524	CSR Box Size S	200-220V 50Hz & 230V 60Hz	123B9509	123B9156	123B9304	123B9226
MS30F3	123B2138	3ph Size S	400-440V 50/60Hz 3ph	123B9532	-		
MS30FB	123B2137	CSR Box Size S	220-240V 50Hz	123B9533	123B9152	123B9304	123B9215
MS30FF	123B2158	CSR Box Size S	208-230V 60Hz	123B9509	123B9153	123B9304	123B9208
MS30FG	123B2159	CSR Box Size S	230V 60Hz	123B9533	123B9156	123B9304	123B9226
MS34F3	123B2140	3ph Size S	400-440V 50/60Hz 3ph	123B9534	-		
MS34FB	123B2139	CSR Box Size S	220V 50Hz	123B9507	123B9157	123B9304	123B9215
MS34FF	123B2174	CSR Box Size S	208V 60Hz	123B9536	123B9156	123B9304	123B9208
MS34T3	123B2526	3ph Size S	400-440V 50/60Hz 3ph	123B9537	-		
MS34TB	123B2710	CSR Box Size S	220-240V 50Hz	123B9538	123B9154	123B9304	123B9226
MS34TG	123B2711	CSR Box Size S	200-220V 50Hz & 230V 60Hz	123B9548	123B9156	123B9304	123B9228
MX16TBa	123B2706	CSR Relay + NTC	220-240V 50Hz	123B9491	123B9159	123B9321	123B9219
MX18FBa	123B2129	CSR Relay + NTC	220-240V 50Hz	123B9497	123B9139	123B9312	123B9219
MX18TBa	123B2707	CSR Relay + NTC	220-240V 50Hz	123B9491	123B9159	123B9321	123B9219
MX18TG	123B2519	CSR Box	200-220V 50Hz & 220-230V 60Hz	123B9494	123B9156	123B9302	123B9208

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Model	Code	Motor	Voltage	Protector	Relay	Starting capacitor	Run capacitor
MX18TGa	123B2541	CSR Relay + NTC	200-220V 50Hz & 220-230V 60Hz	123B9496	123B9159	123B9304	123B9215
MX21FBa	123B2130	CSR Relay + NTC	220-240V 50Hz	123B9482	123B9160	123B9316	123B9219
MX21FG	123B2131	CSR Box	200-220V 50Hz & 220-230V 60Hz	123B9472	123B9156	123B9302	123B9208
MX21TBa	123B2708	CSR Relay + NTC	220-240V 50Hz	123B9494	123B9161	123B9321	123B9215
MX21TG	123B2709	CSR Box	200-220V 50Hz & 230V 60Hz	123B9496	123B9156	123B9302	123B9208
MX21TGa	123B2714	CSR Relay + NTC	200-220V 50Hz & 220-230V 60Hz	123B9496	123B9161	123B9321	123B9208
MX23FBa	123B2132	CSR Relay + NTC	220-240V 50Hz	123B9472	123B9159	123B9316	123B9219
MX23FG	123B2133	CSR Box	200-220V 50Hz & 220-230V 60Hz	123B9491	123B9153	123B9304	123B9215
MX23FGa	123B2183	CSR Relay + NTC	200-220V 50Hz & 220-230V 60Hz	123B9491	123B9159	123B9321	123B9215
NL40TBb	123B3526	CSIR Relay	220-240V 50Hz	123B9454	123B9105	123B9311	
NLY12LAa	123B3118	CSIR Relay	220-240V 50Hz	123B9470	123B9116	123B9312	
NLY12LAb	123B3119	CSR Relay + NTC	220-240V 50Hz	123B9470	123B9133	123B9312	123B9222
NLY12NGa	123B3305	CSIR Relay	200-220V 50Hz & 220-230V 60Hz	123B9498	123B9122	123B9321	
NLY12NGb	123B3306	CSR Relay + NTC	200-220V 50Hz & 220-230V 60Hz	123B9498	123B9160	123B9321	123B9212
NLY12RAa	123B3529	CSIR Relay	220-240V 50Hz	123B9495	123B9136	123B9316	
NLY12RAb	123B3530	CSR Relay + NTC	220-240V 50Hz	123B9495	123B9151	123B9316	123B9225
NLY45LAa	123B3102	CSIR Relay	220-240V 50Hz	123B9431	123B9112	123B9311	
NLY45LAb	123B3103	CSR Relay + NTC	220-240V 50Hz	123B9431	123B9126	123B9311	123B9211
NLY45LRa	123B3129	CSIR Relay	115-127V 60Hz	123B9470	123B9118	123B9313	
NLY45LRb	123B3130	CSR Relay + NTC	115-127V 60Hz	123B9470	123B9150	123B9313	123B9216
NLY45RAa	123B3504	CSIR Relay	220-240V 50Hz	123B9454	123B9105	123B9311	
NLY45RAb	123B3505	CSR Relay + NTC	220-240V 50Hz	123B9431	123B9163	123B9311	123B9210
NLY45RRa	123B3516	CSIR Relay	115-127V 60Hz	123B9489	123B9118	123B9320	
NLY45RRb	123B3517	CSR Relay + NTC	115-127V 60Hz	123B9489	123B9150	123B9320	123B9216
NLY60CAa	123B3108	RSIR PTC	220-240V 50Hz	123B9458	123B9101		
NLY60CAb	123B3109	RSCR PTC	220-240V 50Hz	123B9541	123B9101		123B9211
NLY60LAa	123B3106	CSIR Relay	220-240V 50Hz	123B9454	123B9107	123B9311	
NLY60LAb	123B3107	CSR Relay + NTC	220-240V 50Hz	123B9454	123B9127	123B9311	123B9211
NLY60LRa	123B3131	CSIR Relay	115-127V 60Hz	123B9482	123B9122	123B9313	
NLY60LRb	123B3132	CSR Relay + NTC	115-127V 60Hz	123B9482	123B9124	123B9313	123B9216
NLY60RAa	123B3506	CSIR Relay	220-240V 50Hz	123B9470	123B9112	123B9311	
NLY60RAb	123B3507	CSR Relay + NTC	220-240V 50Hz	123B9470	123B9126	123B9311	123B9211
NLY60RRa	123B3518	CSIR Relay	115-127V 60Hz	123B9489	123B9118	123B9309	
NLY60RRb	123B3519	CSR Relay + NTC	115-127V 60Hz	123B9489	123B9150	123B9309	123B9216
NLY75LAa	123B3153	CSIR Relay	220-240V 50Hz	123B9470	123B9108	123B9312	
NLY75LAb	123B3154	CSR Relay + NTC	220-240V 50Hz	123B9454	123B9188	123B9312	123B9222
NLY75NRa	123B3301	CSIR Relay	115-127V 60Hz	123B9482	123B9129	123B9318	
NLY75NRb	123B3302	CSR Relay + NTC	115-127V 60Hz	123B9482	123B9130	123B9318	123B9216
NLY75RAa	123B3508	CSIR Relay	220-240V 50Hz	123B9502	123B9116	123B9315	
NLY75RAb	123B3509	CSR Relay + NTC	220-240V 50Hz	123B9470	123B9133	123B9315	123B9222
NLY75RRa	123B3520	CSIR Relay	115-127V 60Hz	123B9494	123B9129	123B9309	
NLY75RRb	123B3521	CSR Relay + NTC	115-127V 60Hz	123B9494	123B9130	123B9309	123B9216
NLY80LAa	123B3114	CSIR Relay	220-240V 50Hz	123B9464	123B9119	123B9312	
NLY80LAb	123B3115	CSR Relay + NTC	220-240V 50Hz	123B9454	123B9128	123B9312	123B9222
NLY80LRa	123B3133	CSIR Relay	115-127V 60Hz	123B9482	123B9129	123B9318	
NLY80LRb	123B3134	CSR Relay + NTC	115-127V 60Hz	123B9482	123B9130	123B9318	123B9216
NLY80RAa	123B3510	CSIR Relay	220-240V 50Hz	123B9542	123B9116	123B9315	
NLY80RAb	123B3511	CSR Relay + NTC	220-240V 50Hz	123B9470	123B9133	123B9315	123B9222
NLY80RRa	123B3522	CSIR Relay	115-127V 60Hz	123B9494	123B9129	123B9309	
NLY80RRb	123B3523	CSR Relay + NTC	115-127V 60Hz	123B9494	123B9130	123B9309	123B9216
NLY90LAa	123B3116	CSIR Relay	220-240V 50Hz	123B9457	123B9109	123B9312	
NLY90LAb	123B3117	CSR Relay + NTC	220-240V 50Hz	123B9525	123B9140	123B9312	123B9222
NLY90NRa	123B3309	CSIR Relay	115-127V 60Hz	123B9491	123B9129	123B9313	

## Danfoss Light Commercial Refrigeration Compressors

Model	Code	Motor	Voltage	Protector	Relay	Starting capacitor	Run capacitor
NLY90NRb	123B3310	CSR Relay + NTC	115-127V 60Hz	123B9491	123B9130	123B9313	123B9216
NLY90RAa	123B3512	CSIR Relay	220-240V 50Hz	123B9498	123B9116	123B9315	
NLY90RAb	123B3513	CSR Relay + NTC	220-240V 50Hz	123B9502	123B9133	123B9315	123B9222
NLY90RRa	123B3524	CSIR Relay	115-127V 60Hz	123B9496	123B9129	123B9309	
NLY90RRb	123B3525	CSR Relay + NTC	115-127V 60Hz	123B9496	123B9130	123B9309	123B9216
NPT14RA	123B3703	CSR Relay + NTC	220-240V 50Hz	123B9482	123B9139	123B9315	123B9219
NPT16LA	123B3124	CSR Relay + NTC	220-240V 50Hz	123B9470	123B9151	123B9316	123B9225
NPT16LR	123B3165	CSR Relay + NTC	115-127V 60Hz	123B9494	123B9143	123B9313	123B9221
NPT16RA	123B3712	CSR Relay + NTC	220-240V 50Hz	123B9482	123B9139	123B9316	123B9223
NPT18LA	123B3125	CSR Relay + NTC	220-240V 50Hz	123B9502	123B9151	123B9316	123B9219
NPY12LAa	123B3120	CSIR Relay	220-240V 50Hz	123B9502	123B9116	123B9312	
NPY12LAb	123B3121	CSR Relay + NTC	220-240V 50Hz	123B9470	123B9133	123B9312	123B9222
NPY12LRa	123B3137	CSIR Relay	115-127V 60Hz	123B9494	123B9129	123B9309	
NPY12LRb	123B3138	CSR Relay + NTC	115-127V 60Hz	123B9494	123B9130	123B9309	123B9216
NPY12RAa	123B3701	CSIR Relay	220-240V 50Hz	123B9499	123B9136	123B9315	
NPY12RAb	123B3702	CSR Relay + NTC	220-240V 50Hz	123B9499	123B9151	123B9315	123B9222
NPY14LAa	123B3122	CSIR Relay	220-240V 50Hz	123B9502	123B9136	123B9315	
NPY14LAb	123B3123	CSR Relay + NTC	220-240V 50Hz	123B9502	123B9151	123B9315	123B9222
NPY14LFa	123B3139	CSIR Relay	208-230V 60Hz	123B9498	123B9118	123B9315	
NPY14LFb	123B3140	CSR Relay + NTC	208-230V 60Hz	123B9498	123B9139	123B9315	123B9219
NUT55CAa	123B3104	RSIR PTC	220-240V 50Hz	123B9458	123B9101		
NUT55CAb	123B3105	RSCR PTC	220-240V 50Hz	123B9458	123B9101		123B9211
NUT55CAc	123B3141	RSIR PTC	220-240V 50Hz	123B9460	123B9101		
NUT55CAd	123B3142	RSCR PTC	220-240V 50Hz	123B9460	123B9101		123B9211
NUT55LRc	123B3155	CSIR Relay	115-127V 60Hz	123B9495	123B9116	123B9303	
NUT55LRd	123B3156	CSR Relay + NTC	115-127V 60Hz	123B9495	123B9189	123B9303	123B9216
NUT60CAa	123B3110	RSIR PTC	220-240V 50Hz	123B9458	123B9101		
NUT60CAb	123B3111	RSCR PTC	220-240V 50Hz	123B9458	123B9101		123B9211
NUT60CAc	123B3145	RSIR PTC	220-240V 50Hz	123B9480	123B9101		
NUT60CAd	123B3146	RSCR PTC	220-240V 50Hz	123B9480	123B9101		123B9211
NUT60LRa	123B3149	CSIR Relay	115-127V 60Hz	123B9498	123B9136	123B9305	
NUT60LRb	123B3150	CSR Relay + NTC	115-127V 60Hz	123B9498	123B9148	123B9305	123B9216
NUT60LRc	123B3151	CSIR Relay	115-127V 60Hz	123B9495	123B9136	123B9305	
NUT60LRd	123B3152	CSR Relay + NTC	115-127V 60Hz	123B9495	123B9148	123B9305	123B9216
NUT70CAa	123B3112	RSIR PTC	220-240V 50Hz	123B9458	123B9101		
NUT70CAb	123B3113	RSCR PTC	220-240V 50Hz	123B9458	123B9101		123B9212
NUT70CAc	123B3161	RSIR PTC	220-240V 50Hz	123B9480	123B9101		
NUT70CAd	123B3162	RSCR PTC	220-240V 50Hz	123B9480	123B9101		123B9212
NUY45LAa	123B3143	CSIR Relay	220-240V 50Hz	123B9415	123B9111	123B9311	
NUY45LAb	123B3144	CSR Relay + NTC	220-240V 50Hz	123B9415	123B9125	123B9311	123B9211
NUY45NRa	123B3170	CSIR Relay	115-127V 60Hz	123B9470	123B9109	123B9320	
NUY45RAa	123B3704	CSIR Relay	220-240V 50Hz	123B9404	123B9105	123B9311	
NUY60LAa	123B3157	CSIR Relay	220-240V 50Hz	123B9439	123B9105	123B9311	
NUY60LAb	123B3158	CSR Relay + NTC	220-240V 50Hz	123B9439	123B9163	123B9311	123B9211
NUY70RAa	123B3527	CSIR Relay	220-240V 50Hz	123B9470	123B9110	123B9311	
NUY70RAb	123B3528	CSR Relay + NTC	220-240V 50Hz	123B9470	123B9169	123B9311	123B9212
NUY80LAa	123B3171	CSIR Relay	220-240V 50Hz	123B9417	123B9119	123B9311	
NUY90CAa	123B3163	RSIR PTC	220-240V 50Hz	123B9421	123B9101		
NUY90CAb	123B3164	RSCR PTC	220-240V 50Hz	123B9421	123B9101		123B9212
NUY90LAa	123B3159	CSIR Relay	220-240V 50Hz	123B9417	123B9110	123B9311	
NUY90LAb	123B3160	CSR Relay + NTC	220-240V 50Hz	123B9417	123B9169	123B9311	123B9212
NX18FBa	123B3126	CSR Relay + NTC	220-240V 50Hz	123B9497	123B9139	123B9315	123B9219
NX18TBa	123B3514	CSR Relay + NTC	220-240V 50Hz	123B9489	123B9159	123B9321	123B9219



## Danfoss Light Commercial Refrigeration Compressors

Model	Code	Motor	Voltage	Protector	Relay	Starting capacitor	Run capacitor
NX21FBa	123B3127	CSR Relay + NTC	220-240V 50Hz	123B9482	123B9160	123B9316	123B9219
NX21TBa	123B3515	CSR Relay + NTC	220-240V 50Hz	123B9491	123B9159	123B9321	123B9219
NX23FBa	123B3128	CSR Relay + NTC	220-240V 50Hz	123B9472	123B9159	123B9316	123B9219
P12TN	123B5510	CSR Relay + NTC	220-240V 50Hz	123B9498	123B9140	123B9315	123B9222
P12TN	123B5520	CSR Box	230V 60Hz	123B9467	123B9156	123B9307	123B9219
RL90TE	123B9002	CSIR Relay	100V 50Hz & 115V 60Hz	123B9544	123B9129	123B9318	
RL90TG	123B9001	CSIR Relay	220-240V 50Hz & 220-240V 60Hz	123B9425	123B9116	123B9316	
S18TN	123B5514	CSR Box Size S	200-220V 50Hz & 230V 60Hz	123B9533	123B9153	123B9307	123B9219
S18TN	123B5513	CSR Box Size S	220-240V 50Hz	123B9530	123B9152	123B9307	123B9219
S22TN	123B5515	CSR Box Size S	220-240V 50Hz	123B9530	123B9152	123B9307	123B9219
S26TN	123B5516	CSR Box Size S	230V 60Hz	123B9546	123B9156	123B9304	123B9215
S26TN	123B5516	CSR Box Size S	220-240V 50Hz	123B9507	123B9154	123B9304	123B9219
GS34TB	123B1554	CSR Box Size S	220-240V 50Hz	123B9508	123B9146	123B9325	123B9219
X16TN	123B5711	CSR Box	200-220V 50Hz & 230V 60Hz	123B9494	123B9156	123B9307	123B9219
X18TN	123B5712	CSR Box	200-220V 50Hz & 230V 60Hz	123B9494	123B9156	123B9307	123B9222



# Danfoss Cooling

is a worldwide manufacturer of compressors and condensing units for refrigeration and HVAC applications. With a wide range of high quality and innovative products we help your company to find the best possible energy efficient solution that respects the environment and reduces total life cycle costs.

We have 40 years of experience within the development of hermetic compressors which has brought us amongst the global leaders in our business, and positioned us as distinct variable speed technology specialists. Today we operate from engineering and manufacturing facilities spanning across three continents.



Our products can be found in a variety of applications such as rooftops, chillers, residential air conditioners, heatpumps, coldrooms, supermarkets, milk tank cooling and industrial cooling processes.

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