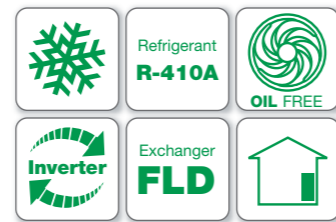


Cooling capacity: 317 kW ÷ 1048 kW



GENERAL CHARACTERISTICS

- Oil free Centrifugal Compressor with magnetic bearings
- Hermetically-Sealed, Direct Drive Motor
- Unit Mounted VFD
- VFP location: integral to compressor
- Refrigerant-Cooled VFD & Motor
- Non-Powered Coast Down using Regenerative Power System and Backup Bearings
- Touchscreen Interface
- R-134a refrigerant

VERSIONS

WMC	EER up to 5,30 ESEER up to 9,30
NOISE LEVELS	
Standard noise	81,1 ÷ 83,1 dB(A)

STANDARD OPTIONS

- Inverter compressor starter
- Evaporator victaulic kit
- Evaporator waterside design pressure 10 bar
- 20 mm evaporator insulation
- Condenser victaulic kit
- Condenser water side design pressure 16 bar
- Electronic expansion valve
- Hour run meter
- General fault contactor

OPTIONS ON REQUEST

- Evaporator flange kit
- Condenser flange kit
- Condenser double flange kit
- Evaporator water side design pressure 25 bar
- Condenser water side design pressure 25 bar
- 20 mm condenser insulation
- Water pressure differential switch on evaporator
- Water pressure differential switch on condenser
- Evaporator flow switch
- Condenser flow switch
- Discharge line shut off valve
- Suction line shut off valve
- High pressure side manometers
- Anti vibration mounts
- Double set point
- Compressor thermal relays
- Energy volt meter
- Current limit display
- Set point reset, demand limit and alarm from external device

TECHNICAL DATA WMC - Cooling only

WMC		100S	125S	150S	200D	250D	300D
Cooling Capacity (MIN - MAX) ¹⁻²	kW	114 - 317	128 - 429	172 - 521	114 - 635	128 - 856	172 - 1048
Unit power input (MIN - MAX) ¹⁻²	kW	21.6 - 65.9	27.7 - 85.7	33.1 - 104	21.6 - 132	27.7 - 171	33.1 - 206
EER up to ³	--	5,40	5,40	6,00	5,40	5,50	5,90
ESEER up to ⁴	--	8,60	8,60	9,40	8,80	8,60	9,60
Sound Pressure ⁵	dB(A)	70,9	72,0	73,0	73,8	75,1	75,9
Compressor	Type	Oil free Centrifugal compressor with magnetic bearings					
Quantity	No.	1	1	1	2	2	2
Minimum capacity	--	Variable speed centrifugal compressor					
Refrigerant	Type	R-134a	R-134a	R-134a	R-134a	R-134a	R-134a
N. of circuits	No.	1	1	1	1	1	1
Evaporator	Type	Flooded Shell&Tube (2 passes)					
Nominal Water pressure drop ⁵	kPa	30	31	23	18	21	11
Water connections size	mm	168,3	168,3	219,1	219,1	219,1	273
Condenser	Type	Flooded Shell&Tube (2 passes)					
Nominal Water pressure drop ⁵	kPa	24	25	28	24	25	29
Water connections size	mm	168,3	168,3	168,3	219,1	219,1	219,1
Standard voltage	V/ph/Hz	400 V / 3ph / 50 Hz					

SELECTION SOFTWARE:

Since a Frictionless Centrifugal Chiller, at fixed evaporator and condenser water conditions, can provide different Cooling Capacity, EER, sound level, etc depending on the speed of rotation, a dedicated selection tool is available to make unit selections and calculate the Performance Data (EER and Part load data) in specific working conditions.

NOTES:

- Indicated intervals are related to full load Cooling Capacity at standard conditions: 12/7°C evaporator water temperature and 30/35°C condenser water temperature
- For dual compressor units the minimum capacity is related to the conditions with only one compressor running
- Indicated EER is the maximum at standard conditions (see also note 1)
- Indicated ESEER is the maximum with full load at standard conditions (see also note 1)
- Sound pressure related to maximum Cooling Capacity at standard conditions, according to ISO 3744 at 1m and free field semispherical conditions

Weight and dimensions		100S	125S	150S	200D	250D	300D
Shipping weight	kg	2360	2416	2546	3709	4095	4765
Operating weight	kg	2520	2634	2812	4074	4548	5330
(A) Length	mm	3254	3254	3419	3441	3289	3401
(B) Width	mm	1276	1276	1276	1790	1853	1904
(C) Height	mm	1823	1823	1823	1755	1748	1794

