



enerblue

INSPIRED BY NATURE

PURPLE FC

NATURAL SOLUTION

PURPLE FC



 **R290**

Range

Cooling capacity (A35;W7) 54 ÷ 146 kW



Only cooling



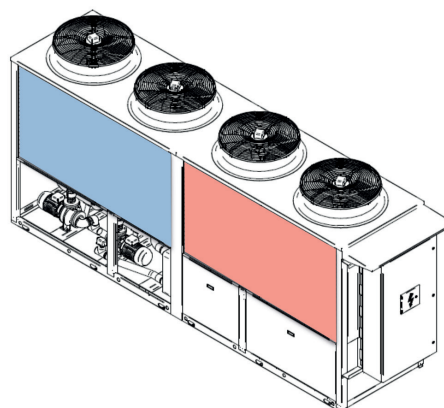
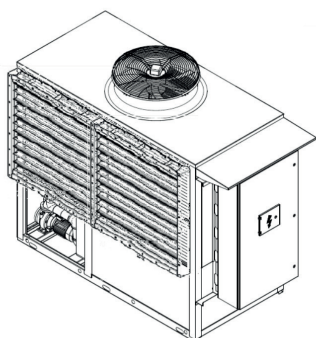
Semi-hermetic
reciprocating compressors



Axial fans



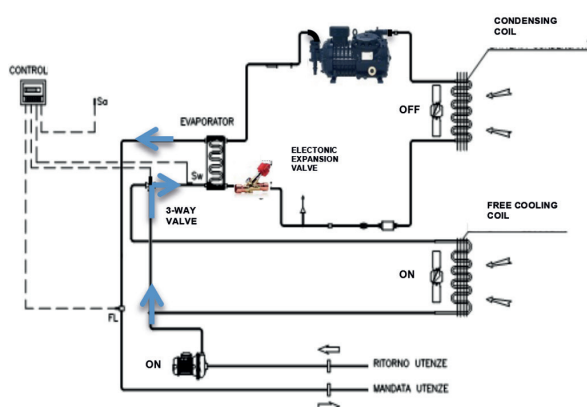
Free Cooling



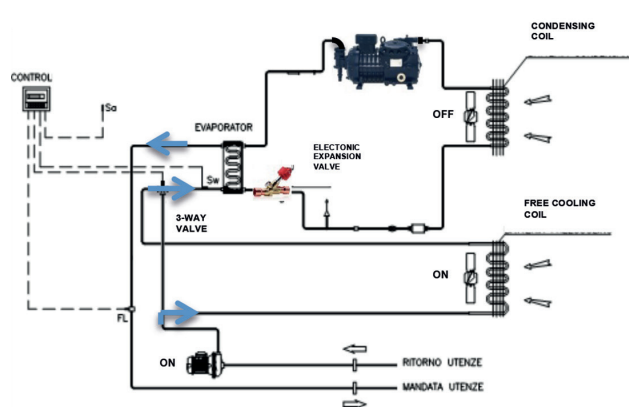
- Dampers
- One Water coil
- One Fan only
- 3 way valve

$$54 \div 73 \text{ kW}$$

- Additional module without Dampers
- Water coils (2 pcs)
- Fans
- 3 way valve

 $81 \div 146 \text{ kW}$ 

Summer



Mid-season and Winter

Freecooling consists of the partial or total supply of cooling capacity as an alternative, free of charge, to the capacity produced by compressors like a traditional chiller. The unit is equipped with an additional water coil and when the external air temperature is less than the temperature of the water returning from the system, the coil can pre-cool or fully cool it. The servo-controlled three-way valve opens or closes the flow to the water coil, depending on the signal coming from the control.

TECHNICAL DATA

UNIT SIZE			30.1	32.1	34.1	35.1	40.1	45.1	50.1	55.1	60.1	75.1	35.2
Cooling (A35;W 12/7 30% glicole)													
Cooling capacity	(1)	kW	54,6	59,2	65,6	73,2	81,2	89,1	98,6	104,3	117,3	129,2	146,0
Total power input	(1) (2)	kW	19,4	21,0	23,1	25,8	30,3	32,6	35,7	38,1	42,4	46,4	51,4
Water Flow	(1)	m ³ /h	10,4	11,3	12,5	14,0	15,5	17,0	18,8	19,9	22,4	24,6	27,8
EER	(1)		2,8	2,8	2,8	2,8	2,7	2,7	2,8	2,7	2,8	2,8	2,8
Free-Cooling (A5;W 12/-)													
Cooling capacity	(5)	kW	25,5	26,7	29,1	30,6	41,5	44,6	46,4	49,0	53,6	57,1	60,8
Outlet water temperature	(5)	°C	9,6	9,7	9,7	9,9	9,4	9,5	9,6	9,6	9,7	9,8	9,9
Total Free-Cooling temperature													
TFT - Total Free-Cooling temperature		°C	-0,5	-1,2	-1,0	-2,3	1,8	1,1	1,1	0,6	-0,3	-1,2	-2,6

(1) Air temperature 35°; Evaporator water temperature IN/OUT 12/7°C glycol 30% according EN 14511

(2) The total power is given by the sum of the power absorbed by the compressors and by the fans according EN 14511

(3) Lw: sound power levels in free field calculated in compliance with ISO 3744. Chiller working conditions (A35;W7)

(4) Sound pressure levels detected at 10/5/1 m from electrical panel, not channelled in free field, in compliance with ISO 3744. Chiller working conditions (A35;W7)

(5) Evaporator water 12/7°- Desuperheater 40/45°C

(6) Ambient air temperature 5°C; Inlet evaporator water temperature 12°C, glycol 30%, Nominal flow rate.

UNIT SIZE			30.1	32.1	34.1	35.1	40.1	45.1	50.1	55.1	60.1	75.1	35.2
Compressor													
Type			Semihermetic										
Quantity		n°	1	1	1	1	1	1	1	1	1	1	2
Refrigerant circuits		n°	1	1	1	1	1	1	1	1	1	1	2
Capacity steps		n°	2	2	2	2	2	2	2	2	2	2	4
Fans condensing section													
Type			Axial										
Quantity		n°	1	1	1	1	2	2	2	2	2	2	2
Fans power input		kW	1,6	1,6	1,6	1,6	3,2	3,2	3,2	3,2	3,2	3,2	3,2
Fans current		A	3,4	3,4	3,4	3,4	6,8	6,8	6,8	6,8	6,8	6,8	6,8
Total air flow		m3/h	21000	21000	21000	21000	42000	42000	42000	42000	42000	42000	42000
Fans free cooling section													
Type			Axial										
Quantity		n°	1	1	1	1	2	2	2	2	2	2	2
Fans power input		kW	1,6	1,6	1,6	1,6	3,2	3,2	3,2	3,2	3,2	3,2	3,2
Fans current		A	3,4	3,4	3,4	3,4	6,8	6,8	6,8	6,8	6,8	6,8	6,8
Total air flow		m3/h	21000	21000	21000	21000	42000	42000	42000	42000	42000	42000	42000
User side exchanger													
Type			Plate										
Quantity		n°	1	1	1	1	1	1	1	1	1	1	1
Nominal water flow rate (A35;W12/7)	(1)	m3/h	10,4	11,3	12,5	14,0	15,5	17,0	18,8	19,9	22,4	24,6	27,8
Pressure drop Water (A35;W12/7)	(1)	kPa	73	71	68	73	73	72	67	70	67	67	38
Desuperheater (accessory)													
Type			Plate										
Quantity		n°	1	1	1	1	1	1	1	1	2	2	2
Heat Capacity	(4)	kW	11,3	12,4	15,0	19,2	19,4	21,6	24,5	25,0	28,7	32,5	34,1
Water flow		m3/h	1,9	2,1	2,6	3,3	3,3	3,7	4,2	4,3	4,9	5,6	5,9
Pressure drop		kPa	7	8	8	12	8	9	11	9	11	11	10
Hydraulic module (version)													
External available pressure		kPa	66	62	101	74	76	77	87	87	89	81	90
Storage tank capacity		l	250	250	250	250	250	250	250	250	250	250	250
Acoustic data LN (STD version)													
Sound power level	(3)	dBA	82	82	82	82	84	84	84	84	86	86	86
Noise pressure level (10 m)	(3)	dBA	54	54	54	54	56	56	56	56	58	58	58
Dimension Data													
Lenght		mm	2890	2890	2890	2890	5330	5330	5330	5330	5330	5330	5330
Depth		mm	1208	1208	1208	1208	1208	1208	1208	1208	1208	1208	1208
Height		mm	2390	2390	2390	2390	2390	2390	2390	2390	2390	2390	2390
Water fittings		"	2"	2"	2"	2"	2"	2"	2"	2"	2"1/2	2"1/2	2"1/2

(1) Air temperature 35°; Evaporator water temperature IN/OUT 12/7°C glycol 30% according EN 14511

(2) The total power is given by the sum of the power absorbed by the compressors and by the fans according EN 14511

(3) Lw: sound power values in free field calculated in compliance with ISO 3744. Chiller working conditions (A35;W7)

(4) Sound pressure levels detected at 10/5/1 m from electrical panel, not channelled in free field, in compliance with ISO 3744. Chiller working conditions (A35;W7)

(5) Evaporator water 12/7°- Desuperheater 40/45°C

(6) Ambient air temperature 5°C; Inlet evaporator water temperature 12°C, glycol 30%, Nominal flow rate.



enerblue.it



enerblue.it



Enerblue srl

C.f./P.IVA - 04246370284
N.REA - PD-374342
T. +39.0426.302051
F. +39.0426.840000
info@enerblue.it
DT00190Rev01

Sede legale:

Via dell'Industria 2435028
PIOVE DI SACCO (PD)

Sede operativa:

Via Giacomo Puccini 930010
CANTARANA (VE)

INSPIRED
BY **NATURE**