frigo screw wp

WATER COOLED HEAT PUMP LIQUID CHILLERS

393 ÷ 1506 kW ***COOLING***
474 ÷ 1977 kW ***HEATING***

R134a SHELL

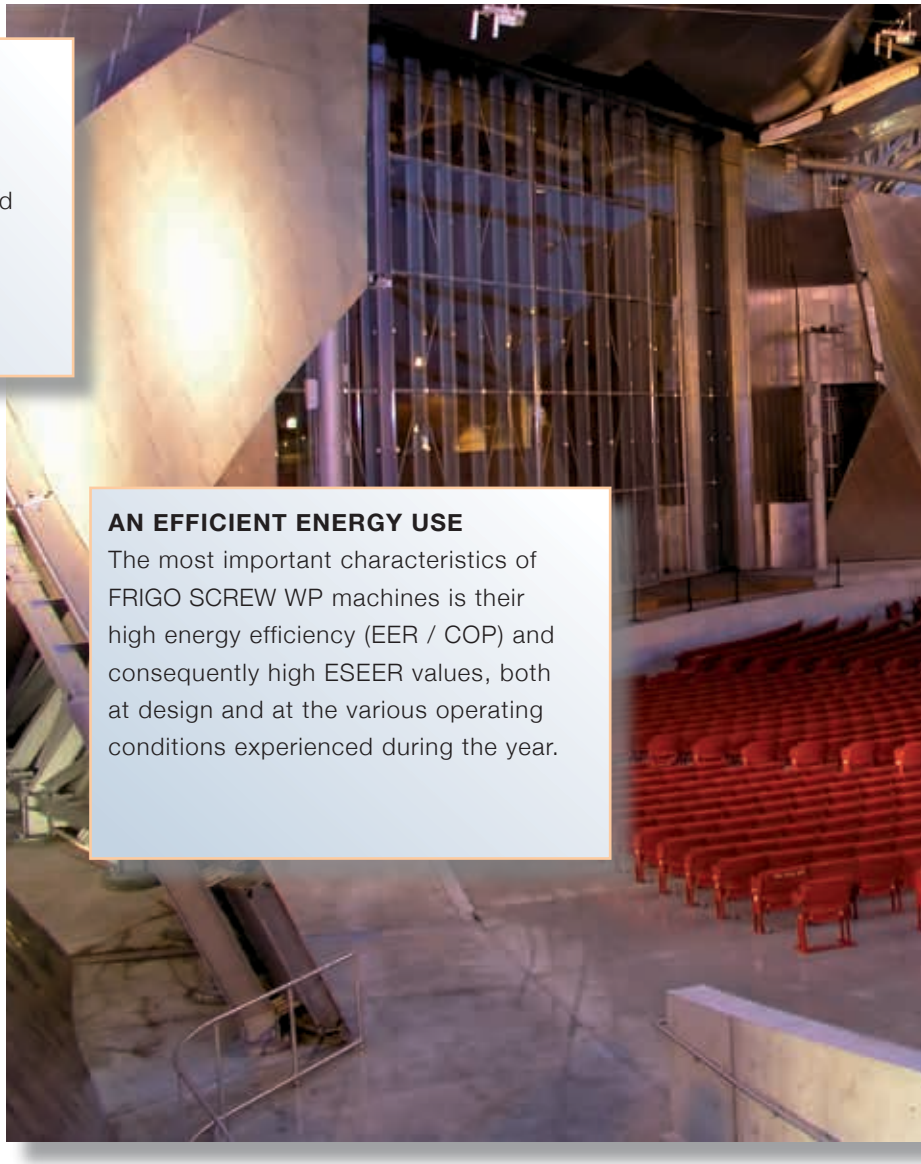
rcgroup.it
1 9 6 3 2 0 1 3
fifty**cool**years

C_GNR_0413

frigo screw wp

water cooled heat pump liquid chillers

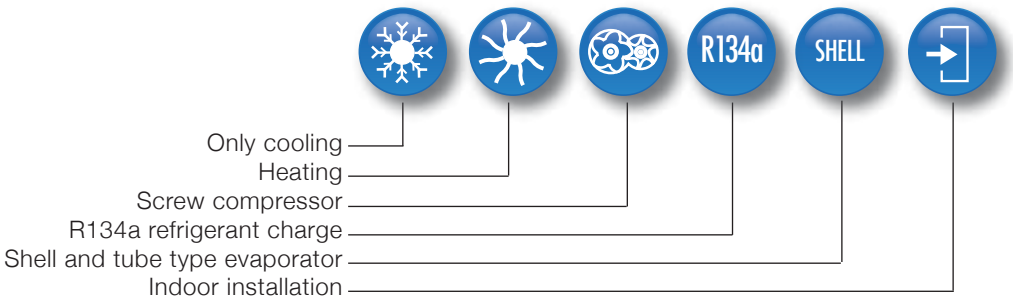
FRIGO SCREW WP (Energy Class B)
Cooling capacity 393 ÷ 1506 kW
Heating capacity 474 ÷ 1977 kW
Water cooled heat pump chiller equipped with two screw compressors and shall and tube heat exchangers (inversion on hydraulic circuit)



AN EFFICIENT ENERGY USE
The most important characteristics of FRIGO SCREW WP machines is their high energy efficiency (EER / COP) and consequently high ESEER values, both at design and at the various operating conditions experienced during the year.

QUIET OPERATION
FRIGO SCREW machines are also extremely quiet.
This promotes their use in noise sensitive locations such as old city centres, hotels, offices and residential buildings.

FRIGO SCREW WP
14 models
5,72 ESEER
74 dB(A) 1 meter far (ISO 3744)



MAIN COMPONENTS

- Housing and base in epoxy painted galvanized steel sheet
- Screw compressor
- Modulating control of the cooling capacity
- Electronic expansion valve
- Shall and tube evaporator, direct expansion type, with single pass water circuit, in order to obtain higher thermal exchange efficiency
- Shall and tube type condenser
- Microprocessor control
- Electrical box with main switch with door lock safety

OPTIONAL ACCESSORIES

- Chilled water safety flow switch
- “Brine A” and “Brine B” kit for glycol solution production up to -12°C
- Serial port
- Silencing box for compressor noise reduction

FRIGO SCREW WP is a heat pump with inversion on hydraulic circuit.
The inversion system is not provided by RC but is at Customer care.

HEAT PUMP - FRIGO SCREW WP
63°C - Maximum outlet water temperature in heating mode.

screw wp

C_GNR_0413

TECHNICAL DATA AND NOMINAL PERFORMANCES

FRIGO SCREW WP heat pump (reversible on hydraulic circuit) - water/water

MODEL		410 V2	460 V2	510 V2	540 V2	610 V2	700 V2	790 V2
Cooling capacity (1)	kW	393	442	492	550	602	656	740
Heating capacity (2)	kW	474	531	596	665	734	829	963
Power input (1)	kW	82,4	92,3	103,0	109,0	134,0	144,0	163,0
Power input (2)	kW	94,6	105,0	119,0	128,0	144,0	159,0	182,0
EER (1)		4,78	4,79	4,80	5,06	4,50	4,56	4,54
COP (2)		5,03	5,03	5,03	5,20	5,11	5,22	5,29
ESEER (1)		5,41	5,34	5,25	5,72	5,12	5,19	5,16
Compressors	n.	2	2	2	2	2	2	2
Gas circuits	n.	2	2	2	2	2	2	2
Weight	kg	3237	3268	3498	3498	3590	3720	3967
Sound pressure (2)	dB(A)	74	74	74	74	79	79	79

MODEL		940 V2	1050 V2	1110 V2	1140 V2	1310 V2	1460 V2	1610 V2
Cooling capacity (1)	kW	880	974	1031	1073	1224	1365	1506
Heating capacity (2)	kW	1115	1258	1345	1411	1568	1766	1977
Power input (1)	kW	196,0	218,0	228,0	236,0	269,0	297,0	335,0
Power input (2)	kW	215,0	241,0	255,0	271,0	298,0	333,0	379,0
EER (1)		4,49	4,46	4,52	4,55	4,55	4,60	4,49
COP (2)		5,19	5,24	5,28	5,21	5,27	5,30	5,23
ESEER (1)		5,08	5,06	5,16	5,04	5,04	5,10	4,99
Compressors	n.	2	2	2	2	2	2	2
Gas circuits	n.	2	2	2	2	2	2	2
Weight	kg	4071	4835	4949	5031	5549	6407	6537
Sound pressure (2)	dB(A)	82	82	82	82	82	84	84

1) Gross value - Referred to chilled water temperature 12/7°C; water to the condenser 30/35°C.
2) Gross value - Referred to chilled water temperature 15/10°C; condenser hot water outlet temperature 45°C.
3) Sound pressure 1m far in free field conditions according to ISO3744 norm.

DIMENSIONS (mm)

Model	a	b	c
410 V2	3.390	960	1.670
460 V2	3.390	960	1.670
510 V2	3.390	960	1.670
540 V2	3.390	960	1.670
610 V2	3.390	960	1.670
700 V2	3.390	960	1.670
790 V2	3.600	1.170	2.150
940 V2	3.600	1.170	2.150
1050 V2	3.600	1.170	2.150
1110 V2	4.200	1.500	2.150
1140 V2	4.200	1.500	2.150
1310 V2	4.200	1.500	2.150
1460 V2	4.900	1.500	2.250
1610 V2	4.900	1.500	2.250