

OCEAN

OCEAN HOCEAN OCEAN/ME

Water cooled water chillers, heat pumps and condenserless version featuring hermetic scroll compressors. Cooling capacity 4 - 194 kW, heating capacity 5 - 230 kW.



BENEFITS

- Reduced noise levels thanks to extensive sound insulation;
- High EER/COP levels;
- Self-adaptive temperature control for operation in systems with reduced water contents (up to model 350);
- Reduced dimensions;
- Flexibility of use, sized for operation with either tower or well water;
- Easy installation and complete access to all internal components;
- Easy to use thanks to an intuitive controller with dual icon display;
- Compatible with the latest BMS supervision and interface systems.

MAIN OPTIONS

- Separate module containing storage tank and pump, conceived to allow easy connection to the chiller itself;
- High and low head pressure pumps;
- Condensing pressure control valve;
- Antivibration dampers;
- Duplicated remote control kit;
- RS485 MODBUS interface kit for connection to supervisor systems;
- X-WEB300 remote supervision, allowing local or remote monitoring via a web server or a GSM cell phone;
- Matching cooling towers or dry coolers available on request.

STANDARD FEATURES

- Hermetic rotary (018-030), scroll (040-150) and twin scroll (200-600) compressors;
- Brazed stainless steel plate evaporator and condenser;
- Individually factory tested, charged with refrigerant and antifreeze oil, ready for operation;
- IP22 protection rating;
- Refrigerant R407C.

VERSIONS

- Chiller;
- Heat pump:
 - Inversion on the gas side (models 018-350);
 - Inversion on the hydraulic side (models 400-600);
- Evaporating unit with in/out shut-off valves, designed for use with a remote condenser.

Model OC-HOC-/ME		018	022	030	040	050	070	100	130	150	200	230	280	350	400	500	600	
Tower water																		
OC	Cooling capacity	kW	4.2	5.1	7.2	10.5	14.3	23.5	32.0	41.1	47.6	62.4	72.7	89.5	114	131	160	194
	Absorbed power	kW	1.1	1.2	1.8	2.6	3.4	4.9	6.8	9.1	10.6	13.7	15.8	19.5	25.1	28.9	35.5	45.1
	ESEER	-	3.74	4.06	4.13	4.14	4.29	4.92	4.92	4.73	4.75	5.39	5.42	5.34	5.33	5.22	5.29	4.98
	IPLV	-	3.66	3.90	3.83	3.84	3.97	4.52	4.47	4.29	4.27	5.26	5.27	5.19	5.18	5.11	5.18	4.89
HOC	Cooling capacity	kW	4.1	4.5	7.1	10.2	14.2	23.1	31.5	40.8	47.4	60.3	71.3	86.4	111	134	159	196
	Absorbed power	kW	1.1	1.2	1.7	2.5	3.3	4.9	6.6	8.8	10.2	13.8	15.8	19.6	25.0	29.0	35.4	44.7
	ESEER	-	3,69	4,00	4,06	4,06	4,28	4,87	4,88	4,72	4,75	5,21	5,32	5,16	5,19	5,32	5,23	5,04
	IPLV	-	3,66	3,93	3,87	3,88	4,05	4,50	4,54	4,40	4,41	5,08	5,15	5,02	5,04	5,21	5,11	4,95
Well water																		
OC	Cooling capacity	kW	4.3	5.3	7.7	11.1	15.1	24.8	34.1	43.8	50.7	66.7	77.4	95.4	121	140	169	205
	Absorbed power	kW	1.0	1.2	1.6	2.3	3.1	4.4	6.0	8.0	9.3	11.9	13.9	17.1	22.1	25.5	30.7	40.0
HOC	Cooling capacity	kW	4.2	5.1	7.4	10.6	14.8	24.4	33.2	43.4	49.9	64.5	76.0	92.3	117	143	167	208
	Absorbed power	kW	1.0	1.1	1.6	2.3	3.0	4.4	5.9	7.8	9.2	12.0	13.9	17.1	22.0	25.6	30.6	39.6
HOC	Heating capacity	kW	4.6	5.4	7.8	11.3	16.1	24.7	33.3	43.7	50.7	65.6	77.2	94.1	121	156	187	230
	Absorbed power	kW	1.3	1.5	2.2	3.3	4.4	6.3	8.9	11.6	13.3	18.2	20.5	25.16	31.9	35.4	43.6	54.0
/ME	Cooling capacity	kW	4.1	4.9	6.9	10.2	13.9	22.8	31.2	40.3	46.7	60.9	70.8	87.2	111	129	158	191
	Absorbed power	kW	1.1	1.3	1.9	2.8	3.6	5.2	7.2	9.5	11.0	14.4	16.6	20.5	26.1	30.2	36.7	46.3

Power supply	V/Ph/Hz	230±10%/1/50						400±10%/3/50										
Sound pressure level	dB(A)	30.1	30.5	31.1	35.1	37.8	38.4	41.3	45.7	46.3	48.1	49.4	49.9	50.7	51.7	52.9	53.9	
Depth	mm	310	310	310	310	500	500	500	500	500	640	640	640	640	720	720	720	
Width	mm	520	520	520	520	780	780	780	780	780	1550	1550	1550	1550	1750	1750	1750	
Height	mm	800	800	800	800	1000	1000	1000	1000	1000	1200	1200	1200	1200	1200	1200	1200	
Installed weight	Kg	48	52	58	66	120	159	181	204	217	388	430	478	538	608	682	715	

All data refers to standard units at the following nominal conditions:

Well water: Chiller: evaporator water inlet/outlet temperature 12-7 °C, condenser water inlet/outlet temperature 20-30 °C.

Tower water: Chiller: evaporator water inlet/outlet temperature 12-7 °C, condenser water inlet/outlet temperature 30-35 °C.

Heat pump: condenser water inlet/outlet temperature 40-45 °C; evaporator water inlet/outlet temperature 12-7 °C.

Evaporating unit: evaporator water inlet/outlet temperature 12-7 °C; condensing temperature (DEW) 45 °C.

Maximum condenser water outlet temperature at nominal conditions 50 °C;

Minimum evaporator water outlet temperature at nominal conditions 2 °C;

Maximum condensing temperature for evaporating unit at nominal conditions 64 °C.

Sound pressure level in hemispherical field at 10 m from condenser side and 1.6 m from ground. Values with tolerance ± 2 dB.

The sound levels refer to operation of the unit under full load in nominal conditions.

Microprocessor controller with dual icon-based display



Storage tank and pump in separate adjoinable module



Allows installation in even the most limited spaces

