WDAT-iZ4

120.1÷580.2

NEW PRODUCT

SCREWLine^4-i

Water chiller
Air cooled
Outdoor installation
Capacity from 204 to 1055 kW

EUROVENT CERTIFIED PERFORMANCE www.eurovent-certification.com
Unit listed on www.eurovent-certification.com

ErP
ErP compliant

Screw INVERTER

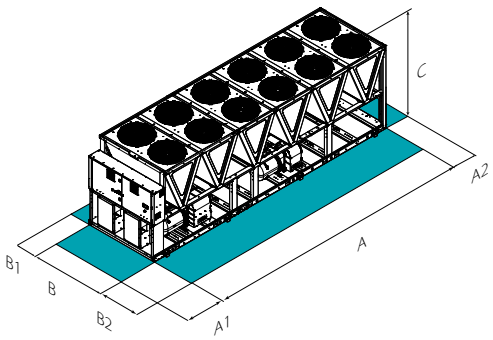
The SCREWLine^4-i liquid chillers are equipped with variable-speed screw compressors driven by an **INVERTER and filled with HFO R-1234ze refrigerant.**

- **REFRIGERANT HFO WITH REDUCED ENVIRONMENTAL IMPACT** - Clivet's constant search for solutions for sustainable comfort and environmental well-being has led to the development of the WDAT-iZ4 range of chillers with the R-1234ze refrigerant, which stands out for its nearly zero environmental impact (GWP < 1).
- **INVERTER SCREW TECHNOLOGY** - Each refrigeration circuit adopts one compact screw compressor with integrated inverter, for maximum reliability and durability. The WDAT-iZ4 stands out for its very high seasonal efficiency, SEER reaching values of 5,24 while guaranteeing considerable energy saving compared to both fixed-speed screw compressors and inverter-driven screw compressors. In addition, it is extremely silent at low loads.
- **ECODESIGN DIRECTIVE 2021 COMPLIANT** - The WDAT-iZ4 series meets and exceeds the most stringent energy efficiency requirements imposed by the Ecodesign Directive from 2021, placing it at the top of the market, thanks to the technical solutions adopted: electronic expansion valves, shell and tube evaporator, high efficiency variable speed axial fans and aluminium microchannel condensing coils.

functions and features

Cooling only | Air cooled | Outdoor installation | R-1234ze | Semi-hermetic Twin-screw | Screw Inverter | Electronic expansion valve | ECOBREEZE | HydroPack

dimensions and clearances



CAUTION!For trouble-free operation of the unit it is essential to maintain the safety distances indicated by the green areas.

SIZE – WDAT-iZ4			120.1	160.1	200.1	240.1	290.1	250.2	280.2	320.2	360.2	400.2	440.2	480.2	540.2	580.2
ST/SC-EXC	A - Length	mm	2925	2925	4175	4175	5425	5425	5425	5425	6675	6675	7925	7925	9175	10425
ST/SC-EXC	B - Width	mm	2228	2228	2228	2228	2228	2228	2228	2228	2228	2228	2228	2228	2228	2228
ST/SC-EXC	C - Height	mm	2535	2535	2535	2535	2535	2535	2535	2535	2535	2535	2535	2535	2535	2535
ST/SC-EXC	A1	mm	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500
ST/SC-EXC	A2	mm	700	700	700	700	700	700	700	700	700	700	700	700	700	700
ST/SC-EXC	B1	mm	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200
ST/SC-EXC	B2	mm	2250	2250	2250	2250	2250	2250	2250	2250	2250	2250	2250	2250	2250	2250

The above mentioned data are referred to standard units for the constructive configurations indicated.

versions and configurations

VERSION:

EXC Excellence (Standard)

EXTERNAL SECTION FAN CONSUMPTION REDUCTION:

CREFB Device for fan consumption reduction of the external section, ECOBREEZE type (Standard)

ENERGY RECOVERY:

- Energy recovery: not required (Standard)

D Partial energy recovery

ACOUSTIC CONFIGURATION:

ST Standard acoustic configuration (Standard)

SC Acoustic configuration with compressor soundproofing

technical data

SIZE – WDAT-iZ4				120.1	160.1	200.1	240.1	290.1	250.2	280.2	320.2	360.2	400.2	440.2	480.2	540.2	580.2
ST/SC-EXC	Cooling capacity (EN14511:2018)	(1)	kW	204	256	360	420	510	422	482	540	630	710	790	880	965	1055
ST/SC-EXC	Total power input (EN14511:2018)	(1)	kW	64,7	85,4	115	142	167	134	156	180	212	241	263	301	322	348
ST/SC-EXC	EER (EN 14511:2018)	(1)	-	3,16	3,00	3,12	2,95	3,05	3,15	3,10	3,00	2,97	2,94	3,00	2,92	3,00	3,03
ST/SC-EXC	SEER	(4)	-	5,01	5,00	5,05	5,00	5,14	5,24	5,22	5,10	5,23	5,17	5,23	5,13	5,19	5,24
ST/SC-EXC	Refrigeration circuits		Nr			1							2				
ST/SC-EXC	No. of compressors		Nr			1							2				
ST/SC-EXC	Type of compressors	(2)	-							ISW							
ST/SC-EXC	Standard power supply		V							400/3/50							
ST-EXC	Sound pressure level	(3)	dB(A)	79	80	79	79	79	79	80	80	80	82	82	81	81	82
SC-EXC	Sound pressure level	(3)	dB(A)	77	78	77	77	76	76	77	77	77	79	79	79	79	78

(1) Data calculated in compliance with Standard EN 14511:2018 referred to the following conditions: Internal exchanger water = 12/7°C; External exchanger entering air = 35°C
(2) ISW = screw compressor with integrated inverter
(3) Sound levels refer to full load units, in test nominal conditions. The sound pressure level refers to 1 m. from the standard unit outer surface operating in open field. Measurements are carried out according to the UNI EN ISO 9614-2 standard, in compliance with the EUROVENT 8/1 certification. Data referred to the following conditions: Internal exchanger water = 12/7°C; Entering external exchanger air temperature = 35°C
(4) Data calculated according to the EN 14825:2016 Regulation

The Product is compliant with the Erp (Energy Related Products) European Directive. It includes the Commission delegated Regulation (EU) No 2016/2281, also known as Ecodesign Lot21.

accessories

1PM Hydropack with 1 pump
1PMV Hydropack user side with nr.1 inverter pump
1PMH Hydropack with nr.1 high static pressure pump
1PMVH Hydropack user side with nr.1 high static pressure inverter pump
2PM Hydropack user side with 2 pumps
2PMV Hydropack user side with no.2 of inverter pumps
2PMH Hydropack user side with nr.2 high static pressure pump
2PMVH Hydropack user side with nr.2 high static pressure inverter pump
IVFDT Inverter driven variable flow-rate user side control depending on the temperature differential
✓ **IFWX** Steel mesh strainer on the water side
✓ **CSVX** Couple of manually operated shut-off valves
✓ **AMMX** Spring antivibration mounts
✓ **AMMSX** Spring anti-seismic antivibration mounts
CONTA2 Energy meter
✓ **RCMRX** Remote control via microprocessor control
✓ **PSX** Mains power supply
CMSC9 Serial communication module for Modbus supervisor
CMSC10 Serial communication module for LonWorks supervisor
CMSC11 Serial communication module for BACnet-IP supervisor
RPRI Refrigerant leak detector in the casing
SCP4 Set-point compensation with 0-10 V signal
SPC2 Set-point compensation with outdoor air temperature probe
PPBM Microchannel coils protection panels
CCME E-coated microchannel coil
MHP High and low pressure gauges
RE-25 Electrical panel antifreeze protection for min. outdoor temperature down to -25°C
ECS ECOSHARE function for the automatic management of a group of units
FC2 EMC filtering for residential-industrial environment EN 61800-3 cat C2)
PGCC Finned coil protection grilles and compressor compartment

Key to symbols:

✓ Accessories separately supplied