

## NEW PRODUCT

## SCREWLine<sup>4</sup>-i

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

HYDRONIC



The SCREWLine<sup>4</sup>-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 5,42 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.



Unit listed on  
[www.eurovent-certification.com](http://www.eurovent-certification.com)



ErP compliant



## functions and features



Cooling only



Air cooled



Outdoor installation



R-1234ze



Semi-hermetic Twin-screw



Screw Inverter



Electronic expansion valve

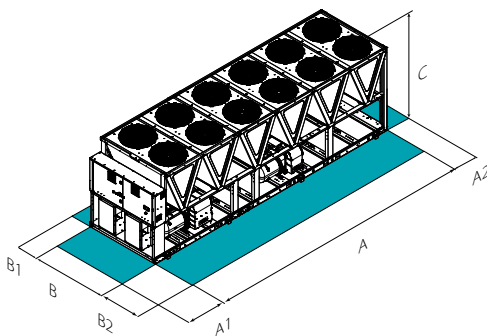


ECOBREEZE



HydroPack

## dimensions and clearances



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	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
ST/SC-EXC	C - Height	mm	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
ST/SC-EXC	A2	mm	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
ST/SC-EXC	B2	mm	2250	2250	2250	2250	2250	2250	2250	2250	2250	2250	2250	2250	2250
ST-EXC	Operating weight	kg	2623	2761	3820	3831	4147	4598	4604	4610	5956	5962	6432	6835	8540
SC/EN-EXC	Operating weight	kg	2794	2933	4040	4051	4368	4938	4944	4949	6347	6352	6823	7274	8982

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

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

## versions and configurations

### VERSION:

**EXC** Excellence (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

**EN** Supersilenced acoustic configuration

### EXTERNAL SECTION FAN CONSUMPTION REDUCTION:

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

## technical data

### SIZE – WDAT-iz4

				<b>120.1</b>	<b>160.1</b>	<b>200.1</b>	<b>240.1</b>	<b>290.1</b>	<b>250.2</b>	<b>280.2</b>	<b>320.2</b>	<b>360.2</b>	<b>400.2</b>	<b>440.2</b>	<b>480.2</b>	<b>540.2</b>	<b>580.2</b>
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)	-	5,15	5,13	5,17	5,14	5,20	5,42	5,38	5,36	5,42	5,37	5,39	5,37	5,33	5,35
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)	77	78	77	77	78	78	80	81	80	81	81	81	81	82
SC-EXC	Sound pressure level	(3)	dB(A)	74	74	74	74	75	75	76	78	77	78	78	78	78	79
EN-EXC	Sound pressure level	(3)	dB(A)	69	71	70	70	71	72	72	73	72	75	75	74	74	74

(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 14825:2018 Regulation

ST-EXC Acoustic standard configuratio (ST)-Excellence

SC-EXC Compressors soundproofing (SC)-Excellence

EN-EXC Supersilenced acoustic configuration (EN) - Excellence

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

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

### Key to symbols:

✓ Accessories separately supplied