

SCREWLine⁴-i

Liquid chiller

Air cooled

Outdoor installation

Capacity from 204 to 1055 kW



- ✓ Screw compressors with inverter technology, Microchannel coils and EC Axial fans type
- ✓ Quite zero environmental impact solution, with one or two independent circuits for high reliability
- ✓ Refrigerant R1234ze - GWP = 7
- ✓ High full load and seasonal efficiency (Excellence version)
- ✓ Operation down to 50°C outdoor air temperature, low water temperature down to -2°C
- ✓ Three acoustic configurations
- ✓ Modular operation management, up to 7 units in cascade
- ✓ Integrated hydronic assembly and partial recovery



Clivet participates in the EUROVENT "Liquid Chilling Packages and Hydronic Heat Pumps". The products concerned feature on the website www.eurovent-certification.com



compliant
ErP



functions and features



Cooling only



Air cooled



Outdoor installation



R-1234ze



Semi-hermetic
Twin-screw



Full
Inverter



Electronic
expansion
valve



ECOBREEZE

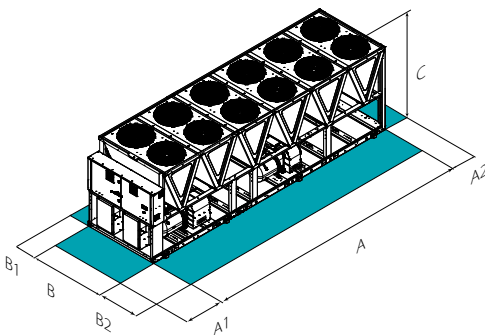


HydroPack



Intelligiant

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	2700	2700	2700	2700	2700	2700	2700	2700	2700	2700	2700	2700	2700
ST-EXC	Operating weight	kg	2623	2761	3924	3920	4284	4850	4861	4867	6254	6264	6686	7183	7595
SC/EN-EXC	Operating weight	kg	2794	2933	4179	4184	4539	5260	5271	5277	6714	6724	7146	7693	8105

The above mentioned data are referred to standard units for the constructive configurations indicated. For all the other configurations, refer to the relative Technical Bulletin.

ST-EXC Acoustic standard configuration (ST)-Excellence
 SC-EXC Compressors soundproofing (SC)-Excellence
 EN-EXC Supersilenced acoustic configuration (EN) - Excellence

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)

LOW TEMPERATURE:

- Low temperature: not required (Standard)
B Water low temperature

ACOUSTIC CONFIGURATION:

ST Standard acoustic configuration (Standard)
SC Acoustic configuration with compressor soundproofing
EN Super-silenced acoustic configuration

EXTERNAL SECTION FAN CONSUMPTION REDUCTION:

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

ENERGY RECOVERY:

- Energy recovery: not required (Standard)
D Partial energy recovery

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 (EN 14511:2022)	(1)	kW	204	256	360	420	510	423	483	539	630	710	789	880	965	1055
ST/SC-EXC	Total power input (EN 14511:2022)	(1)	kW	64,4	85,2	115	142	167	134	156	180	212	241	263	301	322	348
ST/SC-EXC	EER (EN 14511:2022)	(1)	-	3,16	3,00	3,12	2,96	3,06	3,16	3,10	3,00	2,97	2,95	3,00	2,92	3,00	3,04
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	η_{sc}	(4)	%	202,9	202,3	203,6	202,8	205,1	214,0	212,1	211,4	214,0	211,6	212,5	211,9	210,3	210,9
ST/SC-EXC	Refrigeration circuits		Nr			1							2				
ST/SC-EXC	No. of compressors		Nr			1							2				
ST/SC-EXC	Type of compressors	(2)	-														
ST/SC-EXC	Refrigerant		-														
ST/SC-EXC	Standard power supply		V														
ST-EXC	Sound power level	(3)	dB(A)	97	97	97	97	99	99	100	101	101	102	103	103	103	104
SC-EXC	Sound power level	(3)	dB(A)	93	94	94	94	96	96	97	98	98	99	100	100	100	101
EN-EXC	Sound power level	(3)	dB(A)	89	90	90	90	92	92	93	94	94	96	96	96	96	96

(1) Data calculated in compliance with Standard EN 14511:2022 referred to the following conditions: Internal exchanger water temperature = 12/7°C; Outdoor heat exchanger inlet air temperature = 35°C

(2) ISW = screw compressor with integrated inverter

(3) Sound pressure levels are referred to units operating at nominal load in nominal conditions. Measurements are carried out accordingly to UNI EN ISO 9614-1 at nominal standard conditions defined in respective regulations: EU 2016/2281, UE 813/2013, UE 811/2013.

(4) Data calculated according to the EN 14825:2018 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 lato utilizzo con n°2 pompe ad inverter alta prevalenza
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 Rubber antivibration mounts
AMMSX Anti-seismic spring 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 Microchannel e-coated 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 to reduce conducted compressor emissions
PGCC Finned coil protection grilles and compressor compartment
RDVS Switching valve with dual safety valves
REGBT Device for the condensing coil partialization

Accessories whose code ends with "X" are supplied separately