

SCREWLINE4-I

Air-cooled liquid chiller for outdoor installation
Capacity from 204 to 1055 kW



Clivet participates in the EUROVENT "Liquid Chilling Packages and Hydronic Heat Pumps".
Check ongoing validity of certificate on www.eurovent-certification.com



Cooling only



Air cooled



Outdoor installation



R-1234ze



Semi-hermetic Twin-screw



Full Inverter



Electronic expansion valve



ECOBREEZE



HydroPack



INTELLIPLANT



ErP compliant

- ✓ 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 up to 52°C outdoor air temperature, chilled water down to -2°C
- ✓ Three acoustic configurations
- ✓ Modular operation management, up to 7 units in cascade
- ✓ Integrated hydronic assembly and partial recovery

Versions and configurations

VERSION:

EXC Excellence (Standard)

LOW TEMPERATURE:

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

CONFIGURAZIONE ACUSTICA:

ST Standard acoustic configuration (Standard)
SC Acoustic configuration with compressor soundproofing
EN Supersilenced acoustic configuration

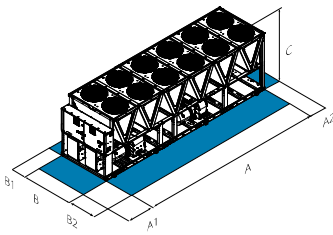
EXTERNAL SECTION FAN CONSUMPTION REDUCTION:

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

RECUPERO ENERGETICO:

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

Dimensions and connections



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	2700	2700	2700	2700	2700	2700	2700	2700	2700	2700	2700	2700	2700	2700
ST-EXC	Operating weight	kg	2623	2761	3924	3929	4284	4850	4861	4867	6254	6264	6686	7183	7595	9141
SC/EN-EXC	Operating weight	kg	2794	2933	4179	4184	4539	5260	5271	5277	6714	6724	7146	7693	8105	9652

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 blue areas.

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	155	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	(3)	-	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	$\eta_{s,c}$	(3)	%	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		-						SCREW INVERTER								
ST/SC-EXC	Refrigerant		-						R-1234ze								
ST/SC-EXC	Standard power supply		V						400/3~/50								
ST-EXC	Sound power level	(2)	dB(A)	97	97	97	97	99	99	100	101	101	102	103	103	103	104
SC-EXC	Sound power level	(2)	dB(A)	93	94	94	94	96	96	97	98	98	99	100	100	100	101
EN-EXC	Sound power level	(2)	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) 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

(3) Data calculated according to the EN 14825:2022 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 on user side with 1 pump	CMSC11	Serial communication module for BACnet-IP supervisor
1PMV	Hydropack user side with nr.1 inverter pump	RPRI	Refrigerant leak detector in the casing
1PMH	Hydropack on user side with 1 high head pump	SCP4	Set-point compensation with 0-10 V signal
1PMVH	Hydropack user side with nr.1 high static pressure inverter pump	SPC2	Set-point compensation with outdoor air temperature probe
2PM	Hydropack user side with 2 pumps	PPBM	Microchannel coils protection panels
2PMV	Hydropack user side with no.2 of inverter pumps	CCME	Microchannel e-coated coil
2PMH	Hydropack user side with nr.2 high static pressure pump	MHP	High and low pressure gauges
2PMVH	Hydropack user side with nr.2 high static pressure inverter pump	RE-25	Electrical panel antifreeze protection for min. outdoor temperature down to -25°C
IVFDT	Inverter driven variable flow-rate user side control depending on the temperature differential	ECS	ECOSHARE function for the automatic management of a group of units
IFWX	Steel mesh filter on the water side	FC2	EMC filtering to reduce conducted compressor emissions
CSVX	Couple of manually operated shut-off valves	PGCC	Finned coil protection grilles and compressor compartment
AMMX	Spring antivibration mounts	RDVS	Switching valve with double safety valves
AMMSX	Spring anti-seismic antivibration mounts	REGBT	Device for the partialisation of condensing coils
CONTA2	Energy meter	52G	Maximum ambient temperature 52°C
RCMRX	Remote control via microprocessor control	IOTX	IoT industrial module for cloud based interoperability & services
PSX	Mains power supply		
CMSC9	Serial communication module for Modbus supervisor		
CMSC10	Serial communication module for LonWorks supervisor		

Accessories whose code ends with "X" are supplied separately

Data contained in this document are not binding and may be changed by the Manufacturer without notice