



Screw INVERTER



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

SCREWLINE⁴-I

Liquid chiller

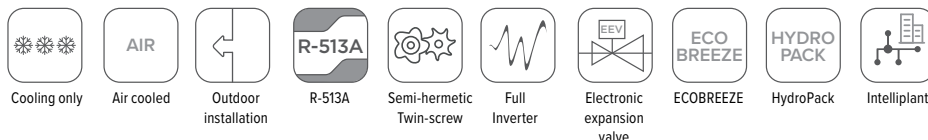
Air cooled

Outdoor installation

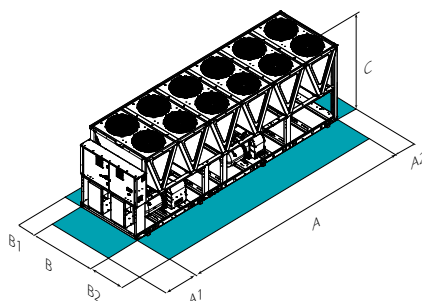
Capacity from 281 to 1422 kW

- ✓ Screw compressors with inverter technology, Microchannel coils and EC Axial fans type
- ✓ Low environmental impact solution, with one or two independent circuits for high reliability
- ✓ Refrigerant R513A - GWP = 631
- ✓ High full load and seasonal efficiency (Excellence version), high seasonal efficiency and compact dimensions (Premium version)
- ✓ Operation down to 50°C outdoor air temperature, low water temperature down to -8°C
- ✓ Three acoustic configurations
- ✓ Modular operation management, up to 7 units in cascade
- ✓ Integrated hydronic assembly and partial recovery

functions and features



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-iK4	120.1	160.1	200.1	240.1	250.2	280.2	320.2	340.2	360.2	400.2	440.2	480.2	540.2	580.2
ST-EXC A - Length	mm	4175	4175	5425	6675	7925	7925	7925	9175	10425	10425	10425	12923	12923	12923
ST-EXC B - Width	mm	2228	2228	2228	2228	2228	2228	2228	2228	2228	2228	2228	2228	2228	2228
ST-EXC C - Height	mm	2535	2535	2535	2535	2535	2535	2535	2535	2535	2535	2535	2535	2535	2535
ST-EXC A1	mm	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500
ST-EXC A2	mm	700	700	700	700	700	700	700	700	700	700	700	700	700	700
ST-EXC B1	mm	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200
ST-EXC B2	mm	2700	2700	2700	2700	2700	2700	2700	2700	2700	2700	2700	2700	2700	2700
ST-EXC Operating weight	kg	3024	3167	4253	4683	5627	6071	6075	6880	7934	7950	7956	9285	9289	9295
SC/EN-EXC Operating weight	kg	3229	3372	4508	4938	6037	6481	6485	7340	8394	8410	8416	9795	9799	9805

Size	WDAT-iK4	120.1	160.1	200.1	240.1	250.2	280.2	320.2	340.2	360.2	400.2	440.2	480.2	540.2	580.2
ST-PRM A - Length	mm	2925	2925	4175	5425	5424	5424	5424	6675	7924	7924	7924	10425	10425	10425
ST-PRM B - Width	mm	2228	2228	2228	2228	2228	2228	2228	2228	2228	2228	2228	2228	2228	2228
ST-PRM C - Height	mm	2535	2535	2535	2535	2535	2535	2535	2535	2535	2535	2535	2535	2535	2535
ST-PRM A1	mm	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500
ST-PRM A2	mm	700	700	700	700	700	700	700	700	700	700	700	700	700	700
ST-PRM B1	mm	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200
ST-PRM B2	mm	2700	2700	2700	2700	2700	2700	2700	2700	2700	2700	2700	2700	2700	2700
ST-PRM Operating weight	kg	2673	2793	3860	4255	4862	4867	5305	6249	6696	6696	7468	8571	8581	8592
SC/EN-PRM Operating weight	kg	2858	2998	4115	4510	5272	5277	5715	6709	7156	7156	7928	9081	9091	9102

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
ST-PRM Standard acoustic configuration (ST) - Premium
SC-PRM Compressors soundproofing (SC)-Premium
EN-PRM Supersilenced acoustic configuration (EN) - Premium



versions and configurations

VERSION:

EXC	Excellence (Standard)
PRM	Premium

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:

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

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

technical data

Size		▶▶	WDAT-iK4	120.1	160.1	200.1	240.1	250.2	280.2	320.2	340.2	360.2	400.2	440.2	480.2	540.2	580.2
ST/SC-EXC	♦ Cooling capacity (EN 14511:2022)	(1)	kW	294	374	505	602	593	669	741	811	900	991	1089	1204	1325	1422
ST/SC-EXC	Total power input (EN 14511:2022)	(1)	kW	93,9	120	163	194	181	210	238	253	284	318	364	387	441	485
ST/SC-EXC	EER (EN 14511:2022)	(1)	-	3,13	3,11	3,10	3,11	3,27	3,19	3,12	3,21	3,17	3,11	2,99	3,11	3,01	2,93
ST/SC-EXC	SEER	(3)	-	5,13	5,12	5,11	5,12	5,36	5,38	5,37	5,39	5,34	5,31	5,35	5,34	5,30	5,31
ST/SC-EXC	η _{s,c}	(3)	%	202,3	202,0	201,3	201,7	211,3	212,2	211,9	212,6	210,5	209,6	211,0	210,6	209,0	209,5
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-513A							
ST/SC-EXC	Standard power supply		V							400/3~/50							
ST-EXC	Sound power level	(2)	dB(A)	97	97	97	98	101	101	101	102	102	102	103	103	104	104
SC-EXC	Sound power level	(2)	dB(A)	93	94	94	95	97	98	98	98	100	100	100	101	101	101
EN-EXC	Sound power level	(2)	dB(A)	89	90	90	91	93	94	94	94	96	96	96	97	97	97
SCREW INVERTER																	
R-513A																	
400/3~/50																	
Size		▶▶	WDAT-iK4	120.1	160.1	200.1	240.1	250.2	280.2	320.2	340.2	360.2	400.2	440.2	480.2	540.2	580.2
ST/SC-PRM	♦ Cooling capacity (EN 14511:2022)	(1)	kW	281	341	473	576	550	614	681	753	836	910	1006	1120	1240	1338
ST/SC-PRM	Total power input (EN 14511:2022)	(1)	kW	97,1	131	173	201	194	225	261	271	297	328	378	400	447	496
ST/SC-PRM	EER (EN 14511:2022)	(1)	-	2,89	2,61	2,73	2,87	2,83	2,73	2,61	2,78	2,81	2,78	2,66	2,80	2,78	2,70
ST/SC-PRM	SEER	(3)	-	4,96	4,84	4,80	4,89	4,95	4,92	4,87	4,99	4,88	4,91	4,90	4,97	4,97	4,97
ST/SC-PRM	η _{s,c}	(3)	%	195,4	190,7	189,1	192,5	194,9	193,8	191,7	196,4	192,1	193,5	192,8	195,8	195,8	195,8
ST/SC-PRM	Refrigeration circuits		Nr		1							2					
ST/SC-PRM	No. of compressors		Nr		1							2					
ST/SC-PRM	Type of compressors		-							SCREW INVERTER							
ST/SC-PRM	Refrigerant		-							R-513A							
ST/SC-PRM	Standard power supply		V							400/3~/50							
ST-PRM	Sound power level	(2)	dB(A)	97	97	97	98	100	101	101	102	102	102	103	103	104	104
SC-PRM	Sound power level	(2)	dB(A)	93	94	94	95	97	97	98	98	98	99	100	100	100	101
EN-PRM	Sound power level	(2)	dB(A)	89	90	90	91	93	93	94	94	94	95	96	96	96	97

(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 14825:2018 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	Spring 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
IOTX	IoT industrial module for cloud based interoperability & services

Accessories whose code ends with "X" are supplied separately