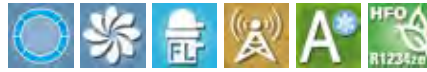


CWW/TTH 1701-1÷6606-1

A CLASS ENERGY EFFICIENCY WATERCOOLED LIQUID CHILLERS WITH TURBOCOR (MAGNETIC LEVITATION) COMPRESSORS AND FLOODED SHELL AND TUBE EXCHANGERS FOR COOLING TOWER OPERATION.



The innovative CWW/TTH 1701-1 ÷6606-1 **TURBOLINE** units for **cooling tower** operation, featuring A CLASS energy efficiency and **HFO-R1234ze** refrigerant, are designed to provide an effective solution to highly selective system needs. The latest generation refrigerant HFO-R1234ze, with GWP<1 (Global warming Potential), is the most environmentally sustainable refrigerant on the market, and meets the strictest international environmental regulations. Furthermore, thanks to Turbocor compressors, the units perform with top efficiency at partial loads, low inrush currents, an excellent silent functioning and reduced weight. Using TURBOCOR dynamic partial-load oil-free magnetic levitation compressors, managed by the TURBOSOFT self-adaptive electronic control and flooded shell and tube evaporators, provide high energy performance, with unbeatable SEER values, with minimum water content, and an excellent silent functioning. Compared to traditional Screw compressor units, TURBOLINE units have low operational costs during their entire use, with a savings that can even reach 50%. Besides, the units are equipped with the WEB MONITORING system, for remotely managing and monitoring the units by means of GPRS/EDGE/3G/TCP-IP communication protocol. The users enabled to use this service can, through dedicated Web page, access Monitoring, Management and Statistics activities.



The units are compliant to the ErP 2021 Regulation.

VERSION

CWW/TTH

Cooling only for **cooling tower**

FEATURES

- Self-supporting galvanized steel frame protected with additional protection achieved via polyester powder painting.
- Semi-hermetic centrifugal compressors with dual Turbocor turbine, oil free, magnetic rising rotor, thermal protection, continuous capacity adjustment system thanks to built-in INVERTER, automatic anti-cavitation system. The power circuit of the compressor is fitted with a set of electrolytic condensers to control the rising in the event of a power failure, reactor for the power factor correction, EMI filter for electromagnetic compatibility.
- Shell and tube type condenser, with easily removable cast iron heads to enable access for maintenance operations.
- High efficiency flooded shell and tube type evaporator, with one circuit on the refrigerant side and one on the water side, complete with water differential pressure switch.
- Cooling circuit shut-off valves on suction, discharge and liquid line.
- Electronic expansion valve.
- Electronic high and low pressure gauges.
- HFO-R1234ze refrigerant.
- Electrical board includes: main on-off switch with door lock, fuses, electronic/digital overload device to protect the compressors, interface relay and terminals for external connections.
- TURBOSOFT control and regulation system is fitted with RS485 serial interface and Web Monitoring device for remote monitoring via GPRS/EDGE/3G/TCP-IP network.

ACCESSORIES

FACTORY FITTED ACCESSORIES

IM	Automatic circuit breakers
HR	Desuperheater
HRT	Total heat recovery
FE	Antifreeze heater for evaporator
TS	Touch screen Interface
IST	Modbus TCP/IP protocol, Ethernet port
ISB	BACnet MSTP protocol, RS485 serial interface

ISBT	BACnet TCP/IP protocol, Ethernet port
ISL	LonWorks protocol, FTT-10 serial interface
ISS	SNMP protocol, Ethernet port
IAV	Remote set-point, 0-10 V signal
IAA	Remote set-point, 4-20 mA signal
IAS	Remote signal for second set-point activation
IDL	Demand limit from digital input
CP	Potential free contacts

LOOSE ACCESSORIES

MN	High and low pressure gauges
CR	Remote control panel
AG	Rubber shock absorbers
AM	Spring shock absorbers
FL	Flow switch

MODEL			1701-1	2202-1	3303-1	4404-1	5505-1	6606-1
Cooling	Cooling capacity (1)	kW	321	639	958	1279	1601	1922
	Absorbed power (1)	kW	54	108	162	216	271	325
	EER (1)		5.94	5.92	5.91	5.92	5.91	5.91
Cooling (EN14511)	Cooling capacity (1)	kW	320	637	955	1276	1595	1916
	Absorbed power (1)	kW	56	110	165	220	277	331
	EER (1)		5.71	5.79	5.79	5.80	5.76	5.79
	SEER (2)		8.55	8.67	8.83	9.53	9.75	9.77
	Energy Efficiency (2)	%	334	339	345	373	382	383
Compressor	Quantity	n°	1	2	3	4	5	6
	Refrigerant circuits	n°	1	1	1	1	1	1
	Capacity steps	n°	Stepless					
Evaporator	Water flow	l/s	15.34	30.53	45.77	61.11	76.49	91.83
	Pressure drops	kPa	45	46	45	34	52	50
	Water connections	DN	100	125	150	150	200	200
Condenser	Water flow	l/s	17.93	35.69	53.51	71.43	89.44	107
	Pressure drops	kPa	49	50	49	50	55	52
	Water connections	DN	100	125	150	150	200	200
Electrical characteristics	Power supply	V/Ph/Hz	400/3/50					
	Max. running current	A	150	300	450	600	750	900
	Max. starting current	A	5	155	305	455	605	755
Sound pressure (3)		dB(A)	72	74	76	76	77	78
Weights	Transport weight	Kg	1798	2837	3924	6408	7741	11474
	Operating weight	Kg	1930	3100	4340	7120	8780	13140

DIMENSIONS			1701-1	2202-1	3303-1	4404-1	5505-1	6606-1
L	STD	mm	3400	3400	3450	4550	5500	6500
W	STD	mm	1100	1150	1800	1800	1800	1800
H	STD	mm	1800	1950	2050	2100	2100	2150

CLEARANCE AREA

CWW/TTH 1701-1:6606-1

500 | 500 | 800 | 500

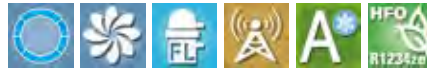


NOTES

1. Chilled water from 12 to 7 °C, water temperature at the condenser from 30 to 35 °C.
2. Seasonal energy efficiency of cooling at low temperature. According to EU Regulation n. 2016/2281.
3. Sound pressure level measured in free field conditions at 1 m from the unit. According to ISO 3744.

CWW/TTH/DR 1701-1÷6606-1

A CLASS ENERGY EFFICIENCY WATERCOOLED LIQUID CHILLERS WITH TURBOCOR (MAGNETIC LEVITATION) COMPRESSORS AND FLOODED SHELL AND TUBE EXCHANGERS FOR DRY-COOLER OPERATION.



The innovative CWW/TTH/DR 1701-1 ÷ 6606-1 **TURBOLINE** units for **Dry-Cooler** operation, featuring A CLASS energy efficiency and **HFO-R1234ze** refrigerant, are designed to provide an effective solution to highly selective system needs. The latest generation refrigerant HFO-R1234ze, with GWP<1 (Global warming Potential), is the most environmentally sustainable refrigerant on the market, and meets the strictest international environmental regulations. Furthermore, thanks to Turbocor compressors, the units perform with top efficiency at partial loads, low inrush currents, an excellent silent functioning and reduced weight. Using TURBOSOF dynamic partial-load oil-free magnetic levitation compressors, managed by the TURBOSOF self-adaptive electronic control and flooded shell and tube evaporators, provide high energy performance, with unbeatable SEER values, with minimum water content, and an excellent silent functioning. Compared to traditional Screw compressor units, TURBOLINE units have low operational costs during their entire use, with a savings that can even reach 50%. Besides, the units are equipped with the WEB MONITORING system, for remotely managing and monitoring the units by means of GPRS/EDGE/3G/TCP-IP communication protocol. The users enabled to use this service can, through dedicated Web page, access Monitoring, Management and Statistics activities.



The units are compliant to the ErP 2021 Regulation.

VERSION

CWW/TTH/DR

Cooling only for **Dry-Cooler**

FEATURES

- Self-supporting galvanized steel frame protected with additional protection achieved via polyester powder painting.
- Semi-hermetic centrifugal compressors with dual Turbocor turbine, oil free, magnetic rising rotor, thermal protection, continuous capacity adjustment system thanks to built-in INVERTER, automatic anti-cavitation system. The power circuit of the compressor is fitted with a set of electrolytic condensers to control the rising in the event of a power failure, reactor for the power factor correction, EMI filter for electromagnetic compatibility.
- Shell and tube type condenser, with easily removable cast iron heads to enable access for maintenance operations.
- High efficiency flooded shell and tube type evaporator, with one circuit on the refrigerant side and one on the water side, complete with water differential pressure switch.
- Cooling circuit shut-off valves on suction, discharge and liquid line.
- Electronic expansion valve.
- Electronic high and low pressure gauges.
- HFO-R1234ze refrigerant.
- Electrical board includes: main on-off switch with door lock, fuses, electronic/digital overload device to protect the compressors, interface relay and terminals for external connections.
- TURBOSOF control and regulation system is fitted with RS485 serial interface and Web Monitoring device for remote monitoring via GPRS/EDGE/3G/TCP-IP network.

ACCESSORIES

FACTORY FITTED ACCESSORIES

IM	Automatic circuit breakers
HR	Desuperheater
HRT	Total heat recovery
FE	Antifreeze heater for evaporator
TS	Touch screen Interface
IST	Modbus TCP/IP protocol, Ethernet port
ISB	BACnet MSTP protocol, RS485 serial interface

ISBT	BACnet TCP/IP protocol, Ethernet port
ISL	LonWorks protocol, FTT-10 serial interface
ISS	SNMP protocol, Ethernet port
IAV	Remote set-point, 0-10 V signal
IAA	Remote set-point, 4-20 mA signal
IAS	Remote signal for second set-point activation
IDL	Demand limit from digital input
CP	Potential free contacts

LOOSE ACCESSORIES

MN	High and low pressure gauges
CR	Remote control panel
AG	Rubber shock absorbers
AM	Spring shock absorbers
FL	Flow switch

MODEL			1701-1	2202-1	3303-1	4404-1	5505-1	6606-1
Cooling	Cooling capacity (1)	kW	301	603	899	1203	1499	1802
	Absorbed power (1)	kW	54	108	162	216	271	325
	EER (1)		5.94	5.92	5.91	5.92	5.91	5.91
Cooling (EN14511)	Cooling capacity (1)	kW	320	637	955	1276	1595	1916
	Absorbed power (1)	kW	56	110	165	220	277	331
	EER (1)		5.71	5.79	5.79	5.80	5.76	5.79
	SEER (2)		8.55	8.67	8.83	9.53	9.75	9.77
	Energy Efficiency (2)	%	334	339	345	373	382	383
Compressor	Quantity	n°	1	2	3	4	5	6
	Refrigerant circuits	n°	1	1	1	1	1	1
	Capacity steps	n°	Stepless					
Evaporator	Water flow	l/s	14.38	28.81	42.95	57.48	71.62	86.10
	Pressure drops	kPa	41	42	41	30	47	44
	Water connections	DN	100	125	150	150	200	200
Condenser	Water flow	l/s	19.4	38.8	58.0	77.7	96.7	116
	Pressure drops	kPa	55	56	55	56	62	58
	Water connections	DN	100	125	150	150	200	200
Electrical characteristics	Power supply	V/Ph/Hz	400/3/50					
	Max. running current	A	150	300	450	600	750	900
	Max. starting current	A	5	155	305	455	605	755
Sound pressure (3)		dB(A)	72	74	76	76	77	78
Weights	Transport weight	Kg	1849	2919	4065	6587	7942	11716
	Operating weight	Kg	1990	3200	4510	7340	9040	13460

DIMENSIONS			1701-1	2202-1	3303-1	4404-1	5505-1	6606-1
L	STD	mm	3400	3400	3450	4550	5500	6500
W	STD	mm	1100	1150	1800	1800	1800	1800
H	STD	mm	1800	1950	2050	2100	2100	2150

CLEARANCE AREA

CWW/TTH/DR 1701-1÷6606-1

500 | 500 | 800 | 500



NOTES

1. Chilled water from 12 to 7 °C, temperature at the condenser (with ethylene glycol at 35%) from 40 to 45 °C.
2. Seasonal energy efficiency of cooling at low temperature. According to EU Regulation n. 2016/2281.
3. Sound pressure level measured in free field conditions at 1 m from the unit. According to ISO 3744.

CWW/TTY 1601-1÷14406-1

A CLASS ENERGY EFFICIENCY WATERCOOLED LIQUID CHILLERS WITH TURBOCOR (MAGNETIC LEVITATION) COMPRESSORS AND FLOODED SHELL AND TUBE EXCHANGERS FOR COOLING TOWER OPERATION.



The innovative CWW/TTY 1601-1÷14406-1 **TURBOLINE** units for **cooling tower** operation, featuring A CLASS energy efficiency, are designed to provide an effective solution to highly selective system needs. Efficiency at partial loads, low breakaway starting current, low levels of operational noise, reduced weight and the specific design and handling every manufacturing aspect, make the TURBOLINE series the top of the range.

Using TURBOCOR dynamic partial-load oil-free magnetic levitation compressors, managed by the TURBOSOFT self-adaptive electronic control and flooded shell and tube evaporators, provide high energy performance, with unbeatable SEER values, with minimum water content, and an excellent silent functioning. Compared to traditional Screw compressor units, TURBOLINE units have low operational costs during their entire use, with a savings that can even reach 50%. Besides, the units are equipped with the WEB MONITORING system, for remotely managing and monitoring the units by means of GPRS/EDGE/3G/TCP-IP communication protocol. The users enabled to use this service can, through dedicated Web page, access Monitoring, Management and Statistics activities.



The units are compliant to the ErP 2021 Regulation.

On request, units can be supplied with **R513A** refrigerant (**CWW/TTY 1601-1÷14406-1**).

VERSION

CWW/TTY

Cooling only for **cooling tower**

FEATURES

- Self-supporting galvanized steel frame protected with additional protection achieved via polyester powder painting.
- Semi-hermetic centrifugal compressors with dual Turbocor turbine, oil free, magnetic rising rotor, thermal protection, continuous capacity adjustment system thanks to built-in INVERTER, automatic anti-cavitation system. The power circuit of the compressor is fitted with a set of electrolytic condensers to control the rising in the event of a power failure, reactor for the power factor correction, EMI filter for electromagnetic compatibility.
- Shell and tube type condenser, with easily removable cast iron heads to enable access for maintenance operations.
- High efficiency flooded shell and tube type evaporator, with one circuit on the refrigerant side and one on the water side, complete with water differential pressure switch.
- Cooling circuit shut-off valves on suction, discharge and liquid line.
- Electronic expansion valve.
- Electronic high and low pressure gauges.
- R134a refrigerant. On request R513A refrigerant.
- Electrical board includes: main on-off switch with door lock, fuses, electronic/digital overload device to protect the compressors, interface relay and terminals for external connections.
- TURBOSOFT control and regulation system is fitted with RS485 serial interface and Web Monitoring device for remote monitoring via GPRS/EDGE/3G/TCP-IP network.

ACCESSORIES

FACTORY FITTED ACCESSORIES

IM	Automatic circuit breakers
HR	Desuperheater
HRT	Total heat recovery
FE	Antifreeze heater for evaporator
TS	Touch screen Interface
IST	Modbus TCP/IP protocol, Ethernet port
ISB	BACnet MSTP protocol, RS485 serial interface
ISBT	BACnet TCP/IP protocol, Ethernet port
ISL	LonWorks protocol, FTT-10 serial interface

ISS	SNMP protocol, Ethernet port
IAV	Remote set-point, 0-10 V signal
IAA	Remote set-point, 4-20 mA signal
IAS	Remote signal for second set-point activation
IDL	Demand limit from digital input
CP	Potential free contacts

LOOSE ACCESSORIES

MN	High and low pressure gauges
CR	Remote control panel
AG	Rubber shock absorbers
AM	Spring shock absorbers
FL	Flow switch

MODEL			1601-1	2001-1	2501-1	3002-1	3502-1	4002-1	4203-1	4602-1	5103-1	5202-1	
Cooling	Cooling capacity (1)	kW	319	421	519	642	712	838	962	1040	1260	1302	
	Absorbed power (1)	kW	55	71	85	110	121	141	166	170	213	206	
	EER (1)		5.80	5.93	6.11	5.84	5.88	5.94	5.80	6.12	5.92	6.32	
Cooling (EN14511)	Cooling capacity (1)	kW	318	420	517	640	710	835	958	1036	1255	1298	
	Absorbed power (1)	kW	55	72	87	112	123	143	167	174	216	210	
	EER (1)		5.78	5.83	5.94	5.71	5.77	5.84	5.74	5.95	5.81	6.18	
	SEER (2)		8.15	8.45	8.83	8.66	8.79	8.40	8.40	8.78	8.67	9.13	
Compressor	Energy Efficiency (2)	%	318	330	345	338	344	328	328	343	339	357	
	Quantity	n°	1	1	1	2	2	2	3	2	3	2	
	Refrigerant circuits	n°	1	1	1	1	1	1	1	1	1	1	
	Capacity steps	n°	Stepless										
Evaporator	Water flow	l/s	15.24	20.11	24.80	30.67	34.02	40.04	45.96	49.69	60.20	62.21	
	Pressure drops	kPa	46	48	50	49	42	53	57	53	59	45	
	Water connections	DN	100	100	100	125	125	125	150	150	150	150	
Condenser	Water flow	l/s	17.87	23.51	28.86	35.93	39.80	46.77	53.89	57.81	70.38	72.05	
	Pressure drops	kPa	46	45	37	45	38	46	47	48	44	47	
	Water connections	DN	100	100	125	125	125	150	150	150	150	150	
Electrical characteristics	Power supply	V/Ph/Hz	400/3/50										
	Max. running current	A	145	231	187	290	462	462	435	374	693	420	
	Max. starting current	A	2	2	2	147	233	233	292	189	464	212	
Sound pressure (3)		dB(A)	72	74	74	75	76	77	76	76	77	77	
Weights	Transport weight	Kg	1795	2060	2360	2870	3225	3325	3715	3540	4235	4155	
	Operating weight	Kg	1920	2230	2580	3120	3560	3660	4070	3940	4720	4740	

MODEL			5303-1	5703-1	6204-1	7303-1	7603-1	8104-1	9704-1	10104-1	12605-1	14406-1	
Cooling	Cooling capacity (1)	kW	1427	1563	1676	1787	1944	2080	2382	2600	3245	3912	
	Absorbed power (1)	kW	238	257	281	295	306	341	396	411	511	617	
	EER (1)		6.00	6.08	5.96	6.06	6.35	6.10	6.02	6.33	6.35	6.34	
Cooling (EN14511)	Cooling capacity (1)	kW	1423	1559	1671	1783	1939	2075	2376	2592	3234	3898	
	Absorbed power (1)	kW	242	260	286	298	311	346	401	419	522	631	
	EER (1)		5.88	6.00	5.84	5.98	6.23	6.00	5.93	6.19	6.20	6.18	
	SEER (2)		9.01	8.81	9.24	9.52	9.58	9.58	9.20	9.22	9.50	9.52	
Compressor	Energy Efficiency (2)	%	352	344	362	373	375	375	360	361	372	373	
	Quantity	n°	3	3	4	3	3	4	4	4	5	6	
	Refrigerant circuits	n°	1	1	1	1	1	1	1	1	1	1	
	Capacity steps	n°	Stepless										
Evaporator	Water flow	l/s	68.18	74.68	80.08	85.38	92.88	99.38	114	124	155	187	
	Pressure drops	kPa	45	54	48	28	36	36	37	48	58	62	
	Water connections	DN	200	200	200	200	200	200	250	250	300	300	
Condenser	Water flow	l/s	79.55	86.96	93.50	99.47	108	116	133	144	179	216	
	Pressure drops	kPa	42	49	35	36	45	46	36	46	50	52	
	Water connections	DN	200	200	200	200	200	250	250	250	300	300	
Electrical characteristics	Power supply	V/Ph/Hz	400/3/50										
	Max. running current	A	561	561	924	630	630	748	840	840	1050	1260	
	Max. starting current	A	376	376	695	422	422	563	632	632	842	1052	
Sound pressure (3)		dB(A)	78	78	79	78	78	78	79	79	80	80	
Weights	Transport weight	Kg	4725	4825	7355	7730	7880	8350	9330	9430	14440	18420	
	Operating weight	Kg	5310	5410	8190	8760	8910	9400	10520	10620	16590	21260	

DIMENSIONS			1601-1	2001-1	2501-1	3002-1	3502-1	4002-1	4203-1	4602-1	5103-1	5202-1
L	STD	mm	3400	3400	3400	3400	3400	3400	3400	3400	3450	3450
W	STD	mm	1100	1150	1150	1150	1250	1250	1700	1300	1800	1400
H	STD	mm	1800	1850	1950	1950	2000	2000	2000	2050	2050	2100

DIMENSIONS			5303-1	5703-1	6204-1	7303-1	7603-1	8104-1	9704-1	10104-1	12605-1	14406-1
L	STD	mm	3450	3450	4500	4500	4500	4500	4750	4750	5750	6750
W	STD	mm	1800	1800	1750	1800	1800	1800	1800	1800	1950	2100
H	STD	mm	2100	2100	2100	2150	2150	2150	2200	2200	2350	2400

CLEARANCE AREA

CWW/TTY 1601-1÷14406-1



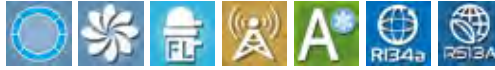
NOTES

1. Chilled water from 12 to 7 °C, water temperature at the condenser from 30 to 35 °C.
2. Seasonal energy efficiency of cooling at low temperature. According to EU Regulation n. 2016/2281.
3. Sound pressure level measured in free field conditions at 1 m from the unit. According to ISO 3744.

Electrical board side

CWW/TTY/DR 1601-1÷6204-1

A CLASS ENERGY EFFICIENCY WATERCOOLED LIQUID CHILLERS WITH TURBOCOR (MAGNETIC LEVITATION) COMPRESSORS AND FLOODED SHELL AND TUBE EXCHANGERS FOR DRY-COOLER OPERATION.



The innovative CWW/TTY/DR 1601-1÷6204-1 **TURBOLINE** units for **Dry-Cooler** operation, featuring A CLASS energy efficiency, are designed to provide an effective solution for highly selective system needs. Efficiency at partial loads, low breakaway starting current, low levels of operational noise, reduced weight and the specific design and handling every manufacturing aspect, make the TURBOLINE series the top of the range.

Using TURBOCOR dynamic partial-load oil-free magnetic levitation compressors, managed by the TURBOSOFT self-adaptive electronic control and flooded shell and tube evaporators, provide high energy performance, with unbeatable SEER values, with minimum water content, and an excellent silent functioning. Compared to traditional Screw compressor units, TURBOLINE units have low operational costs during their entire use, with a savings that can even reach 50%. Besides, the units are equipped with the WEB MONITORING system, for remotely managing and monitoring the units by means of GPRS/EDGE/3G/TCP-IP communication protocol. The users enabled to use this service can, through dedicated Web page, access Monitoring, Management and Statistics activities.



The units are compliant to the ErP 2021 Regulation.

On request, units can be supplied with **R513A** refrigerant (**CWW/TTJ/DR 1601-1÷6204-1**).

VERSION

CWW/TTY/DR

Cooling only for **Dry-Cooler**

FEATURES

- Self-supporting galvanized steel frame protected with additional protection achieved via polyester powder painting.
- Semi-hermetic centrifugal compressors with dual Turbocor turbine, oil free, magnetic rising rotor, thermal protection, continuous capacity adjustment system thanks to built-in INVERTER, automatic anti-cavitation system. The power circuit of the compressor is fitted with a set of electrolytic condensers to control the rising in the event of a power failure, reactor for the power factor correction, EMI filter for electromagnetic compatibility.
- Shell and tube type condenser, with easily removable cast iron heads to enable access for maintenance operations.
- High efficiency flooded shell and tube type evaporator, with one circuit on the refrigerant side and one on the water side, complete with water differential pressure switch.
- Cooling circuit shut-off valves on suction, discharge and liquid line.
- Electronic expansion valve.
- Electronic high and low pressure gauges.
- R134a refrigerant. On request R513A refrigerant.
- Electrical board includes: main on-off switch with door lock, fuses, electronic/digital overload device to protect the compressors, interface relay and terminals for external connections.
- TURBOSOFT control and regulation system is fitted with RS485 serial interface and Web Monitoring device for remote monitoring via GPRS/EDGE/3G/TCP-IP network.

ACCESSORIES

FACTORY FITTED ACCESSORIES

IM	Automatic circuit breakers
HR	Desuperheater
HRT	Total heat recovery
FE	Antifreeze heater for evaporator
TS	Touch screen Interface
IST	Modbus TCP/IP protocol, Ethernet port
ISB	BACnet MSTP protocol, RS485 serial interface
ISBT	BACnet TCP/IP protocol, Ethernet port
ISL	LonWorks protocol, FTT-10 serial interface

ISS	SNMP protocol, Ethernet port
IAV	Remote set-point, 0-10 V signal
IAA	Remote set-point, 4-20 mA signal
IAS	Remote signal for second set-point activation
IDL	Demand limit from digital input
CP	Potential free contacts

LOOSE ACCESSORIES

MN	High and low pressure gauges
CR	Remote control panel
AG	Rubber shock absorbers
AM	Spring shock absorbers
FL	Flow switch

MODEL			1601-1	2001-1	3002-1	4002-1	4203-1	5103-1	6204-1
Cooling	Cooling capacity (1)	kW	298	395	598	792	894	1185	1584
	Absorbed power (1)	kW	70	92	141	186	211	277	372
	EER (1)		4.26	4.29	4.24	4.26	4.24	4.28	4.26
Cooling (EN14511)	Cooling capacity (1)	kW	297	394	596	789	891	1180	1579
	Absorbed power (1)	kW	71	94	144	189	214	282	376
	EER (1)		4.18	4.19	4.14	4.17	4.16	4.18	4.20
	SEER (2)		8.15	8.45	8.66	8.40	8.40	8.67	9.24
Compressor	Energy Efficiency (2)	%	318	330	338	328	328	339	362
	Quantity	n°	1	1	2	2	3	3	4
	Refrigerant circuits	n°	1	1	1	1	1	1	1
	Capacity steps	n°	Stepless						
Evaporator	Water flow	l/s	14.24	18.87	28.57	37.84	42.71	56.62	75.68
	Pressure drops	kPa	44	45	48	50	54	56	42
	Water connections	DN	100	100	125	125	150	150	200
Condenser	Water flow	l/s	19.20	25.40	38.55	51.02	57.64	76.26	102
	Pressure drops	kPa	58	52	57	53	59	52	40
	Water connections	DN	100	100	125	125	150	150	200
Electrical characteristics	Power supply	V/Ph/Hz	400/3/50						
	Max. running current	A	145	231	290	462	435	693	924
	Max. starting current	A	2	2	147	233	292	464	695
Sound pressure (3)		dB(A)	72	74	75	76	76	77	78
Weights	Transport weight	Kg	1840	2115	2955	3430	3855	4415	7555
	Operating weight	Kg	1980	2300	3220	3790	4240	4940	8450

DIMENSIONS			1601-1	2001-1	3002-1	4002-1	4203-1	5103-1	6204-1
L	STD	mm	3400	3400	3400	3400	3400	3450	4500
W	STD	mm	1100	1150	1150	1250	1700	1800	1750
H	STD	mm	1800	1850	1950	2000	2000	2050	2100

CLEARANCE AREA

CWW/TTY/DR 1601-1÷6204-1

500 | 500 | 800 | 500



NOTES

1. Chilled water from 12 to 7 °C, temperature at the condenser (with ethylene glycol at 35%) from 40 to 45 °C.
2. Seasonal energy efficiency of cooling at low temperature. According to EU Regulation n. 2016/2281.
3. Sound pressure level measured in free field conditions at 1 m from the unit. According to ISO 3744.