

FULLPOWER EVO

TCAVB 2335÷31955 TCAVT-
TCAVQ 2345÷31715

Cooling capacity 333,6÷1953,1 kW



Features

High energy efficiency chillers in R513A and R134a

Operating limits extension with HT/HTT accessories

Linear capacity control (16-100%)

Wide range of accessories

Integrated MASTER/SLAVE control

Tax incentives*



**Packaged air-cooled water chillers with axial fans.
Series with semi-hermetic screw compressors and R513A or R134a refrigerant gas.**

Construction features

- Compressor: high energy efficiency semi-hermetic screw compressor with linear capacity control (16-100%). Star-delta limited start-up and complete with integral protection, casing heater and refrigerant gas outlet piping shut-off valve.
- Water side heat exchanger: dry expansion shell and tube exchanger with counterflow heat exchange, complete with closed cell polyurethane foam rubber insulation, water flow differential pressure switch and Victaulic fittings.
- Air side heat exchanger: with micro-channels.
- Fan: external rotor axial type electric fans equipped with internal thermal protection, accident protection grilles and proportional electronic device for continuous fan rotation speed adjustment.
- Control: microprocessor electronic control.
- Structure: made of galvanised and painted steel plate with polyester powder coating.
- The unit is also complete with:

- display of cooling circuit high/low pressure;
- electronic expansion valve;
- clock board;
- Master/Slave control up to 4 units in parallel;
- control of Variable Primary Flow (VPF_R).

Versions

- B - Standard efficiency version (TCAVBL-TCAVBZ).
- T - High efficiency version with oversized condensing section (TCAVTL-TCAVTZ).
- Q - Super-silenced version complete with soundproof compressor technical compartment, reduced speed fans and oversized condensing section (TCAVQL-TCAVQZ).

Models

- TCAVBL: standard efficiency unit designed for cooling

only with R513A gas.

- TCAVTL: high efficiency unit designed for cooling only with R513A gas.
- TCAVQL: super silenced unit designed for cooling only with R513A gas.
- TCAVBZ: standard efficiency unit designed for cooling only with R134a gas.
- TCAVTZ: high efficiency unit designed for cooling only with R134a gas.
- TCAVQZ: super silenced unit designed for cooling only with R134a gas.

Factory fitted accessories

- PUMP with single or double electric pump, one of which automatic in standby. The electric pumps are available in the low or high head versions.
- Inverter pump control for unit start-up.
- Desuperheater.
- 100% heat recovery unit.
- Freecooling module management.
- Set-up for operating limits extension
- Condensing control with fans with EC motor
- Condensing control with over-pressure fans (B-T versions only)
- Power factor correction capacitors ($\cos\phi > 0.94$).
- Compressor circuit breaker switches.
- Electro-mechanical flow switch.
- Oil level sensor.
- Forced limit of power consumption.
- Forced noise limit.
- Energy parameter measuring device.
- Soft starter.
- Soundproofed compressor box.
- Cooling circuit intake valves.
- Refrigerant leak detector.

- Cooling circuit high and low pressure gauges.
- Double safety valves.
- Coil protection nets or buffer panels
- Microchannel coils with E-coating treatment, copper/aluminium, copper/copper, pre-painted copper/aluminium
- Control of min/max power supply voltage.
- Digital input for double set-point.
- 4-20 mA analogue signal for shifting set-point.
- Evaporator antifreeze heater, electrical panel, electric pumps and heat exchangers for heat recovery if applicable.
- Low temperature water production.
- Interfaces for serial communication with other devices.
- Colour touch user keypad (fitted on the machine or remotely) with 7" display
- Spring anti-vibration mounts
- Protective packaging

Separately supplied accessories

- Remote keypad with display.
- Thermostat with display.
- Rhoss supervisors for unit monitoring and remote management.
- Rhoss sequencer for integrated management of multiple chillers.

Technical data

TCAVBL MODEL		2335	2365	2405	2465	2515	2565	2645	2705
① Nominal cooling capacity	kW	333,6	370,6	406,5	464,5	520,4	565,4	650,4	708,4
① E.E.R.		3	2,91	2,85	3	2,89	2,84	2,95	2,9
① Absorbed power	kW	111,2	127,4	142,6	154,8	180,1	199,1	220,5	244,3
TCAVBL MODEL		2335	2365	2405	2465	2515	2565	2645	2705
② Sound pressure	dB(A)	65	65	66	66	66	66	66,5	66,5
③ Sound power	dB(A)	97	97	98	98	98	98	99	99
Screw compressors	n.	2	2	2	2	2	2	2	2
Circuits	n.	2	2	2	2	2	2	2	2
Electrical supply	V-ph-Hz	400-3-50	400-3-50	400-3-50	400-3-50	400-3-50	400-3-50	400-3-50	400-3-50
DIMENSIONS AND WEIGHTS		2335	2365	2405	2465	2515	2565	2645	2705
L – Width	mm	3740	3740	3740	4850	4850	4850	6000	6000
H – Height	mm	2480	2480	2480	2480	2480	2480	2480	2480
P – Depth	mm	2260	2260	2260	2260	2260	2260	2260	2260
④ TCAVBL weight	kg	2659	2669	2692	3095	3670	3814	4162	4197
TCAVTL-TCAVQL MODEL		2345	2385	2425	2475	2525	2585	2655	2715
① Nominal cooling capacity	kW	343,6	383,6	427,6	478,5	532,4	583,4	664,4	719,4
① Nominal cooling capacity	kW	333,7	372,6	410,6	474,5	511,5	560,4	638,5	698,4
① E.E.R.		3,24	3,21	3,19	3,24	3,2	3,19	3,27	3,23
① E.E.R.		3,15	3,1	3,02	3,11	3,03	2,94	3,03	2,93
① Absorbed power	kW	106	119,5	134	147,7	166,4	182,9	203,2	222,7
① Absorbed power	kW	105,9	120,2	136	152,6	168,8	190,6	210,7	238,4
TCAVTL-TCAVQL MODEL		2345	2385	2425	2475	2525	2585	2655	2715
② TCAVTL Sound pressure	dB(A)	65,5	65,5	65,5	65,5	65,5	66,5	66,5	66,5
② TCAVQL Sound pressure	dB(A)	56,5	56,5	56,5	56,5	56,5	57,5	57,5	57,5
③ TCAVTL Sound power	dB(A)	98	98	98	98	98	99	99	99
③ TCAVQL Sound power	dB(A)	89	89	89	89	89	90	90	90
Screw compressors	n.	2	2	2	2	2	2	2	2
Circuits	n.	2	2	2	2	2	2	2	2
Electrical supply	V-ph-Hz	400-3-50	400-3-50	400-3-50	400-3-50	400-3-50	400-3-50	400-3-50	400-3-50
DIMENSIONS AND WEIGHTS		2345	2385	2425	2475	2525	2585	2655	2715
L – Width	mm	4840	4840	4840	6000	6000	6000	7160	7160
H – Height	mm	2480	2480	2480	2480	2480	2480	2480	2480
P – Depth	mm	2260	2260	2260	2260	2260	2260	2260	2260
④ TCAVTL weight	kg	2991	2996	3030	3395	4094	4124	4647	4684
④ TCAVQL weight	kg	3266	3271	3305	3670	4474	4504	5047	5084
SEASONAL ENERGY PERFORMANCE									
TCAVBL MODEL SEASONAL PERFORMANCE IN COOLING MODE		2335	2365	2405	2465	2515	2565	2645	2705
① Pdesignc (EN 14825)	kW	333,6	370,6	406,5	464,5	520,4	565,4	650,4	708,4
① SEER (EN 14825)		4,62	4,59	4,57	4,64	4,58	4,55	4,62	4,59
② ηs,c	%	182	181	180	183	180	179	182	181
TCAVTL MODEL SEASONAL PERFORMANCE IN COOLING MODE		2345	2385	2425	2475	2525	2585	2655	2715
① Pdesignc (EN 14825)	kW	343,6	383,6	427,6	478,5	532,4	583,4	664,4	719,4
① SEER (EN 14825)		4,8	4,72	4,71	4,77	4,71	4,72	4,77	4,76
② ηs,c	%	189	186	185	188	185	186	188	187
TCAVQL MODEL SEASONAL PERFORMANCE IN COOLING MODE		2345	2385	2425	2475	2525	2585	2655	2715
① Pdesignc (EN 14825)	kW	333,7	372,6	410,6	474,5	511,5	560,4	638,5	698,4
① SEER (EN 14825)		4,73	4,63	4,61	4,72	4,68	4,61	4,69	4,67
② ηs,c	%	186	182	181	186	184	181	185	184
TCAVBZ MODEL		2335	2365	2405	2465	2515	2565	2645	2705
① Nominal cooling capacity	kW	334,6	371,6	408,5	466,5	522,3	567,4	653,4	711,4
① E.E.R.		3,09	2,98	2,93	3,07	2,97	2,9	3,03	2,97
① Absorbed power	kW	108,3	124,7	139,4	152	175,9	195,7	215,6	239,5
TCAVBZ MODEL		2335	2365	2405	2465	2515	2565	2645	2705
② Sound pressure	dB(A)	65	65	66	66	66	66	66,5	66,5
③ Sound power	dB(A)	97	97	98	98	98	98	99	99
Screw compressors	n.	2	2	2	2	2	2	2	2

Circuits	n.	2	2	2	2	2	2	2	2
Electrical supply	V-ph-Hz	400-3-50	400-3-50	400-3-50	400-3-50	400-3-50	400-3-50	400-3-50	400-3-50
DIMENSIONS AND WEIGHTS		2335	2365	2405	2465	2515	2565	2645	2705
L – Width	mm	3740	3740	3740	4850	4850	4850	6000	6000
H – Height	mm	2480	2480	2480	2480	2480	2480	2480	2480
P – Depth	mm	2260	2260	2260	2260	2260	2260	2260	2260
① TCAVBZ weight	kg	2659	2669	2692	3095	3670	3814	4162	4197
TCAVTZ-TCAVQZ MODEL		2345	2385	2425	2475	2525	2585	2655	2715
① Nominal cooling capacity	kW	344,6	384,6	429,6	480,5	534,4	585,4	667,4	722,4
① Nominal cooling capacity	kW	334,7	373,6	412,6	476,5	513,5	562,4	641,5	701,4
① E.E.R.		3,34	3,3	3,27	3,32	3,3	3,28	3,35	3,32
① E.E.R.		3,25	3,18	3,1	3,18	3,11	3,02	3,11	3
① Absorbed power	kW	103,2	116,5	131,4	144,7	161,9	178,5	199,2	217,6
① Absorbed power	kW	103	117,5	133,1	149,8	165,1	186,2	206,3	233,8
TCAVTZ-TCAVQZ MODEL		2345	2385	2425	2475	2525	2585	2655	2715
② TCAVTZ Sound pressure	dB(A)	65,5	65,5	65,5	65,5	65,5	66,5	66,5	66,5
② TCAVQZ Sound pressure	dB(A)	56,5	56,5	56,5	56,5	56,5	57,5	57,5	57,5
③ TCAVTZ Sound power	dB(A)	98	98	98	98	98	99	99	99
③ TCAVQZ Sound power	dB(A)	89	89	89	89	89	90	90	90
Screw compressors	n.	2	2	2	2	2	2	2	2
Circuits	n.	2	2	2	2	2	2	2	2
Electrical supply	V-ph-Hz	400-3-50	400-3-50	400-3-50	400-3-50	400-3-50	400-3-50	400-3-50	400-3-50
DIMENSIONS AND WEIGHTS		2345	2385	2425	2475	2525	2585	2655	2715
L – Width	mm	4840	4840	4840	6000	6000	6000	7160	7160
H – Height	mm	2480	2480	2480	2480	2480	2480	2480	2480
P – Depth	mm	2260	2260	2260	2260	2260	2260	2260	2260
① TCAVTZ weight	kg	2991	2996	3030	3395	4094	4124	4647	4684
① TCAVQZ weight	kg	3266	3271	3305	3670	4474	4504	5047	5084
SEASONAL ENERGY PERFORMANCE									
TCAVBZ MODEL SEASONAL PERFORMANCE IN COOLING MODE		2335	2365	2405	2465	2515	2565	2645	2705
① Pdesignc (EN 14825)	kW	334,6	371,6	408,5	466,5	522,3	567,4	653,4	711,4
① SEER (EN 14825)		4,68	4,63	4,6	4,67	4,62	4,58	4,66	4,62
② ηs,c	%	184	182	181	184	182	180	183	182
TCAVTZ MODEL SEASONAL PERFORMANCE IN COOLING MODE		2345	2385	2425	2475	2525	2585	2655	2715
① Pdesignc (EN 14825)	kW	344,6	384,6	429,6	480,5	534,4	585,4	667,4	722,4
① SEER (EN 14825)		4,83	4,77	4,76	4,82	4,76	4,76	4,82	4,81
② ηs,c	%	190	188	187	190	187	187	190	189
TCAVQZ MODEL SEASONAL PERFORMANCE IN COOLING MODE		2345	2385	2425	2475	2525	2585	2655	2715
① Pdesignc (EN 14825)	kW	334,7	373,6	412,6	476,5	513,5	562,4	641,5	701,4
① SEER (EN 14825)		4,78	4,68	4,65	4,75	4,71	4,66	4,73	4,72
② ηs,c	%	188	184	183	187	186	183	186	186
TCAVBL MODEL		2755	2805	2865	2935	2995	21075	21115	21275
① Nominal cooling capacity	kW	758,4	799,4	865,3	944,3	994,2	1081,3	1121,2	1287,1
① E.E.R.		2,87	2,96	2,88	2,97	2,91	3,03	2,93	3,04
① Absorbed power	kW	264,3	270,1	300,5	317,9	341,6	356,9	382,7	423,4
TCAVBL MODEL		2755	2805	2865	2935	2995	21075	21115	21275
② Sound pressure	dB(A)	67,5	67,5	68	68	68	69	69	69
③ Sound power	dB(A)	100	100	101	101	101	102	102	102
Screw compressors	n.	2	2	2	2	2	2	2	2
Circuits	n.	2	2	2	2	2	2	2	2
Electrical supply	V-ph-Hz	400-3-50	400-3-50	400-3-50	400-3-50	400-3-50	400-3-50	400-3-50	400-3-50
DIMENSIONS AND WEIGHTS		2755	2805	2865	2935	2995	21075	21115	21275
L – Width	mm	6000	7160	7160	8260	8260	9360	9360	10460
H – Height	mm	2480	2480	2480	2480	2480	2480	2480	2480
P – Depth	mm	2260	2260	2260	2260	2260	2260	2260	2260
① TCAVBL weight	kg	4227	5211	5631	6021	6081	6516	6536	6916
TCAVTL-TCAVQL MODEL		2765	2815	2885	2955	21025	21105	21175	21335
① Nominal cooling capacity	kW	772,3	820,4	887,3	964,3	1029,3	1116,2	1176,2	1327,1
① Nominal cooling capacity	kW	749,3	788,4	847,3	926,4	998,3	1072,3	1123,2	1281,1

① E.E.R.		3,22	3,26	3,21	3,29	3,22	3,25	3,17	3,18
① E.E.R.		2,88	3,01	2,92	3,02	2,95	3	2,89	2,91
① Absorbed power	kW	239,8	251,7	276,4	293,1	319,7	343,4	371	417,3
① Absorbed power	kW	260,2	261,9	290,2	306,8	338,4	357,4	388,7	440,2
TCAVTL-TCAVQL MODEL		2765	2815	2885	2955	21025	21105	21175	21335
② TCAVTL Sound pressure	dB(A)	67	67	68	68	68	69	69	69
② TCAVQL Sound pressure	dB(A)	58	59	60	60	60	60	61	61
③ TCAVTL Sound power	dB(A)	100	100	101	101	101	102	102	102
③ TCAVQL Sound power	dB(A)	91	92	93	93	93	93	94	94
Screw compressors	n.	2	2	2	2	2	2	2	2
Circuits	n.	2	2	2	2	2	2	2	2
Electrical supply	V-ph-Hz	400-3-50	400-3-50	400-3-50	400-3-50	400-3-50	400-3-50	400-3-50	400-3-50
DIMENSIONS AND WEIGHTS		2765	2815	2885	2955	21025	21105	21175	21335
L – Width	mm	7160	8260	8260	9360	9360	10460	10460	11560
H – Height	mm	2480	2480	2480	2480	2480	2480	2480	2480
P – Depth	mm	2260	2260	2260	2260	2260	2260	2260	2260
④ TCAVTL weight	kg	4704	5516	5946	6416	6481	6848	6868	7273
④ TCAVQL weight	kg	5104	5916	6346	6816	6881	7248	7268	7673
SEASONAL ENERGY PERFORMANCE									
TCAVBL MODEL SEASONAL PERFORMANCE IN COOLING MODE		2755	2805	2865	2935	2995	21075	21115	21275
① Pdesignc (EN 14825)	kW	758,4	799,4	865,3	944,3	994,2	1081,3	1121,2	1287,1
① SEER (EN 14825)		4,57	4,58	4,57	4,6	4,58	4,59	4,59	4,62
② ηs,c	%	180	180	180	181	180	181	181	182
TCAVTL MODEL SEASONAL PERFORMANCE IN COOLING MODE		2765	2815	2885	2955	21025	21105	21175	21335
① Pdesignc (EN 14825)	kW	772,3	820,4	887,3	964,3	1029,3	1116,2	1176,2	1327,1
① SEER (EN 14825)		4,76	4,74	4,7	4,73	4,72	4,77	4,71	4,74
② ηs,c	%	188	186	185	186	186	188	185	186
TCAVQL MODEL SEASONAL PERFORMANCE IN COOLING MODE		2765	2815	2885	2955	21025	21105	21175	21335
① Pdesignc (EN 14825)	kW	749,3	788,4	847,3	926,4	998,3	1072,3	1123,2	1281,1
① SEER (EN 14825)		4,66	4,63	4,63	4,64	4,61	4,67	4,63	4,63
② ηs,c	%	183	182	182	182	181	184	182	182
TCAVBZ MODEL		2755	2805	2865	2935	2995	21075	21115	21275
① Nominal cooling capacity	kW	761,4	803,4	869,3	948,3	999,2	1086,3	1126,2	1293,1
① E.E.R.		2,95	3,04	2,96	3,05	2,99	3,11	3	3,12
① Absorbed power	kW	258,1	264,3	293,7	310,9	334,2	349,3	375,4	414,5
TCAVBZ MODEL		2755	2805	2865	2935	2995	21075	21115	21275
② Sound pressure	dB(A)	67,5	67,5	68	68	68	69	69	69
③ Sound power	dB(A)	100	100	101	101	101	102	102	102
Screw compressors	n.	2	2	2	2	2	2	2	2
Circuits	n.	2	2	2	2	2	2	2	2
Electrical supply	V-ph-Hz	400-3-50	400-3-50	400-3-50	400-3-50	400-3-50	400-3-50	400-3-50	400-3-50
DIMENSIONS AND WEIGHTS		2755	2805	2865	2935	2995	21075	21115	21275
L – Width	mm	6000	7160	7160	8260	8260	9360	9360	10460
H – Height	mm	2480	2480	2480	2480	2480	2480	2480	2480
P – Depth	mm	2260	2260	2260	2260	2260	2260	2260	2260
④ TCAVBZ weight	kg	4227	5211	5631	6021	6081	6516	6536	6916
TCAVTZ-TCAVQZ MODEL		2765	2815	2885	2955	21025	21105	21175	21335
① Nominal cooling capacity	kW	775,3	824,4	891,3	968,3	1034,3	1121,2	1181,2	1333,1
① Nominal cooling capacity	kW	752,3	791,4	851,3	930,4	1003,3	1077,3	1128,2	1287,1
① E.E.R.		3,3	3,34	3,3	3,37	3,31	3,34	3,26	3,27
① E.E.R.		2,96	3,09	3	3,09	3,03	3,07	2,96	2,98
① Absorbed power	kW	234,9	246,8	270,1	287,3	312,5	335,7	362,3	407,7
① Absorbed power	kW	254,2	256,1	283,8	301,1	331,1	350,9	381,1	431,9
TCAVTZ-TCAVQZ MODEL		2765	2815	2885	2955	21025	21105	21175	21335
② TCAVTZ Sound pressure	dB(A)	67	67	68	68	68	69	69	69
② TCAVQZ Sound pressure	dB(A)	58	59	60	60	60	60	61	61
③ TCAVTZ Sound power	dB(A)	100	100	101	101	101	102	102	102
③ TCAVQZ Sound power	dB(A)	91	92	93	93	93	93	94	94
Screw compressors	n.	2	2	2	2	2	2	2	2
Circuits	n.	2	2	2	2	2	2	2	2

Electrical supply	V-ph-Hz	400-3-50	400-3-50	400-3-50	400-3-50	400-3-50	400-3-50	400-3-50	400-3-50
DIMENSIONS AND WEIGHTS		2765	2815	2885	2955	21025	21105	21175	21335
L – Width	mm	7160	8260	8260	9360	9360	10460	10460	11560
H – Height	mm	2480	2480	2480	2480	2480	2480	2480	2480
P – Depth	mm	2260	2260	2260	2260	2260	2260	2260	2260
④ TCAVTZ weight	kg	4704	5516	5946	6416	6481	6848	6868	7273
④ TCAVQZ weight	kg	5104	5916	6346	6816	6881	7248	7268	7673

SEASONAL ENERGY PERFORMANCE

TCAVBZ MODEL SEASONAL PERFORMANCE IN COOLING MODE		2755	2805	2865	2935	2995	21075	21115	21275
① Pdesignc (EN 14825)	kW	761,4	803,4	869,3	948,3	999,2	1086,3	1126,2	1293,1
① SEER (EN 14825)		4,61	4,63	4,6	4,64	4,61	4,63	4,63	4,66
② ηs,c	%	181	182	181	183	181	182	182	183

TCAVTZ MODEL SEASONAL PERFORMANCE IN COOLING MODE		2765	2815	2885	2955	21025	21105	21175	21335
① Pdesignc (EN 14825)	kW	775,3	824,4	891,3	968,3	1034,3	1121,2	1181,2	1333,1
① SEER (EN 14825)		4,8	4,78	4,74	4,77	4,77	4,82	4,75	4,78
② ηs,c	%	189	188	187	188	188	190	187	188

TCAVQZ MODEL SEASONAL PERFORMANCE IN COOLING MODE		2765	2815	2885	2955	21025	21105	21175	21335
① Pdesignc (EN 14825)	kW	752,3	791,4	851,3	930,4	1003,3	1077,3	1128,2	1287,1
① SEER (EN 14825)		4,69	4,67	4,66	4,66	4,64	4,69	4,66	4,66
② ηs,c	%	185	184	183	183	183	185	183	183

TCAVBL MODEL			21405	21505	31605 (*)	31705 (*)	31805 (*)	31955 (*)
① Nominal cooling capacity	kW		1399,1	1503,2	1599,1	1694,2	1799,1	1946,1
① E.E.R.			2,94	2,92	3,06	3,04	3,05	2,86
① Absorbed power	kW		475,9	514,8	522,6	557,3	589,9	680,5

TCAVBL MODEL			21405	21505	31605	31705	31805	31955
② Sound pressure	dB(A)		70	71	71	71	72	73
③ Sound power	dB(A)		103	104	104	104	105	106
Screw compressors	n.		2	2	3	3	3	3
Circuits	n.		2	2	3	3	3	3

Electrical supply	V-ph-Hz	400-3-50	400-3-50	400-3-50	400-3-50	400-3-50	400-3-50	400-3-50
DIMENSIONS AND WEIGHTS			21405	21505	31605	31705	31805	31955
L – Width	mm		11560	11560	11630	11630	12730	12730
H – Height	mm		2480	2480	2580	2580	2580	2580
P – Depth	mm		2260	2260	2260	2260	2260	2260
④ TCAVBL weight	kg		8247	8588	9813	9910	10345	10622

TCAVTL-TCAVQL MODEL			21455	21565	31655 (*)	31715 (*)
① Nominal cooling capacity	kW		1443,2	1557,1	1649,1	1705,2
① Nominal cooling capacity	kW		1400,3	1501,2	1596,1	1650,2
① E.E.R.			3,12	3,08	3,24	3,19
① E.E.R.			2,92	2,86	3,02	2,98
① Absorbed power	kW		462,6	505,6	509	534,5
① Absorbed power	kW		479,6	524,9	528,5	553,8

TCAVTL-TCAVQL MODEL			21455	21565	31655	31715
② TCAVTL Sound pressure	dB(A)		70	71	71	71
② TCAVQL Sound pressure	dB(A)		62	63	64	64
③ TCAVTL Sound power	dB(A)		103	104	104	104
③ TCAVQL Sound power	dB(A)		95	96	97	97
Screw compressors	n.		2	2	3	3
Circuits	n.		2	2	3	3

Electrical supply	V-ph-Hz	400-3-50	400-3-50	400-3-50	400-3-50	
DIMENSIONS AND WEIGHTS			21455	21565	31655	31715
L – Width	mm		12730	12730	12730	12730
H – Height	mm		2480	2480	2580	2580
P – Depth	mm		2260	2260	2260	2260
④ TCAVTL weight	kg		8968	9304	10128	10220
④ TCAVQL weight	kg		9388	9724	10668	10760

SEASONAL ENERGY PERFORMANCE

TCAVBL MODEL SEASONAL PERFORMANCE IN COOLING MODE			21405	21505	31605 (*)	31705 (*)	31805 (*)	31955 (*)
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① Pdesignc (EN 14825)	kW	1399,1	1503,2	1599,1	1694,2	1799,1	1946,1
① SEER (EN 14825)		4,56	4,58	4,63	4,59	4,61	4,57
② ηs,c	%	179	180	182	181	181	180
TCAVTL MODEL SEASONAL PERFORMANCE IN COOLING MODE		21455	21565	31655 (*)	31715 (*)		
① Pdesignc (EN 14825)	kW	1443,2	1557,1	1649,1	1705,2		
① SEER (EN 14825)		4,74	4,72	4,78	4,69		
② ηs,c	%	187	186	188	184		
TCAVQL MODEL SEASONAL PERFORMANCE IN COOLING MODE		21455	21565	31655 (*)	31715 (*)		
① Pdesignc (EN 14825)	kW	1400,3	1501,2	1596,1	1650,2		
① SEER (EN 14825)		4,68	4,63	4,71	4,6		
② ηs,c	%	184	182	185	181		
TCAVBZ MODEL		21405	21505	31605 (*)	31705 (*)	31805 (*)	31955 (*)
① Nominal cooling capacity	kW	1406,1	1507,2	1605,1	1700,2	1806,1	1953,1
① E.E.R.		3,02	2,99	3,16	3,14	3,15	2,93
① Absorbed power	kW	465,6	504,1	507,9	541,5	573,4	666,6
TCAVBZ MODEL		21405	21505	31605	31705	31805	31955
② Sound pressure	dB(A)	70	71	71	71	72	73
③ Sound power	dB(A)	103	104	104	104	105	106
Screw compressors	n.	2	2	3	3	3	3
Circuits	n.	2	2	3	3	3	3
Electrical supply	V-ph-Hz	400-3-50	400-3-50	400-3-50	400-3-50	400-3-50	400-3-50
DIMENSIONS AND WEIGHTS		21405	21505	31605	31705	31805	31955
L – Width	mm	11560	11560	11630	11630	12730	12730
H – Height	mm	2480	2480	2580	2580	2580	2580
P – Depth	mm	2260	2260	2260	2260	2260	2260
④ TCAVBZ weight	kg	8247	8588	9813	9910	10345	10622
TCAVTZ-TCAVQZ MODEL		21455	21565	31655 (*)	31715 (*)		
① Nominal cooling capacity	kW	1450,2	1564,1	1655,1	1714,2		
① Nominal cooling capacity	kW	1407,3	1502,2	1605,1	1663,2		
① E.E.R.		3,19	3,16	3,33	3,28		
① E.E.R.		3	2,92	3,1	3,07		
① Absorbed power	kW	454,6	495	497,0	522,6		
① Absorbed power	kW	469,1	514,5	517,8	541,8		
TCAVTZ-TCAVQZ MODEL		21455	21565	31655	31715		
② TCAVTZ Sound pressure	dB(A)	70	71	71	71		
② TCAVQZ Sound pressure	dB(A)	62	63	64	64		
③ TCAVTZ Sound power	dB(A)	103	104	104	104		
③ TCAVQZ Sound power	dB(A)	95	96	97	97		
Screw compressors	n.	2	2	3	3		
Circuits	n.	2	2	3	3		
Electrical supply	V-ph-Hz	400-3-50	400-3-50	400-3-50	400-3-50		
DIMENSIONS AND WEIGHTS		21455	21565	31655	31715		
L – Width	mm	12730	12730	12730	12730		
H – Height	mm	2480	2480	2580	2580		
P – Depth	mm	2260	2260	2260	2260		
④ TCAVTZ weight	kg	8968	9304	10128	10220		
④ TCAVQZ weight	kg	9388	9724	10668	10760		
SEASONAL ENERGY PERFORMANCE							
TCAVBZ MODEL SEASONAL PERFORMANCE IN COOLING MODE		21405	21505	31605 (*)	31705 (*)	31805 (*)	31955 (*)
① Pdesignc (EN 14825)	kW	1406,1	1507,2	1605,1	1700,2	1806,1	1953,1
① SEER (EN 14825)		4,6	4,6	4,67	4,63	4,65	4,6
② ηs,c	%	181	181	184	182	183	181
TCAVTZ MODEL SEASONAL PERFORMANCE IN COOLING MODE		21455	21565	31655 (*)	31715 (*)		
① Pdesignc (EN 14825)	kW	1450,2	1564,1	1655,1	1714,2		
① SEER (EN 14825)		4,79	4,76	4,83	4,75		
② ηs,c	%	189	188	190	187		
TCAVQZ MODEL SEASONAL PERFORMANCE IN COOLING MODE		21455	21565	31655 (*)	31715 (*)		
① Pdesignc (EN 14825)	kW	1407,3	1502,2	1605,10	1663,20		
① SEER (EN 14825)		4,71	4,66	4,75	4,65		

Data at the following conditions:

- ① Air: 35°C – Water: 12/7°C.
- ② In open field (Q = 2) at 10 m from the unit.
- ③ Total sound power level in dB(A) based on measurements carried out in accordance with regulation UNI EN-ISO 9614.
- ④ Weight referred to the unit without load and not accessorised.

■ TCAVQL super-silenced versions.

Performance according to EN 14511.

(*) Unit not Eurovent certified.

- ① Low temperature application (7°C)
 - ② Seasonal energy efficiency: low temperature cooling (EU Regulation 2016/2281)
- Data at the following conditions:

- ① Air: 35°C – Water: 12/7°C.
- ② In open field (Q = 2) at 10 m from the unit.
- ③ Total sound power level in dB(A) based on measurements carried out in accordance with regulation UNI EN-ISO 9614.
- ④ Weight referred to the unit without load and not accessorised.

■ TCAVQZ super-silenced versions.

Performance according to EN 14511.

(*) Unit not Eurovent certified.

- ① Low temperature application (7°C)
- ② Seasonal energy efficiency: low temperature cooling (EU Regulation 2016/2281)



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