

FullPOWER EVO

TCAVB 2335÷21505

TCAVT-TCAVQ

2345÷21565

Cooling capacity: 336.6X÷1564.1 kW



✓ **High energy efficiency chillers**
in R513A and R134a

✓ **Extended operating limits**

✓ **Linear capacity control**
(25-100%)

✓ **Wide range of accessories**

✓ **Integrated MASTER/SLAVE**
control



Web code: (TCAVTL, TCAVQL): FPE23 (TCAVBL): FP023 (TCAVTZ, TCAVQZ): FPE21 (TCAVBZ): FP021

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 (25-100%). 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.
- 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
❶ Nominal cooling capacity	kW	333,6	370,6	406,5	464,5	520,4	565,4	650,4	708,4
❶ E.E.R.		3	2,91	2,85	3	2,89	2,84	2,95	2,9
❶ 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
❷ Sound pressure	dB(A)	65	65	66	66	66	66	66,5	66,5
❷ Sound power	dB(A)	97	97	98	98	98	98	99	99
Screw compressor/steps	n.	2/ CONTINUOUS LINEAR REGULATION (25-100%)							
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	4840	4840	4840	5990	5990
H - Height	mm	2480	2480	2480	2480	2480	2480	2480	2480
P - Depth	mm	2260	2260	2260	2260	2260	2260	2260	2260
❶ TCAVBL weight	kg	2760	2770	2790	3220	3780	3990	4330	4360
TCAVTL-TCAVQL MODEL		2345	2385	2425	2475	2525	2585	2655	2715
❶ Nominal cooling capacity	kW	343,6	383,6	427,6	478,5	532,4	583,4	664,4	719,4
❶ Nominal cooling capacity	kW	333,7	372,6	410,6	474,5	511,5	560,4	638,5	698,4
❶ E.E.R.		3,24	3,21	3,19	3,24	3,2	3,19	3,27	3,23
❶ E.E.R.		3,15	3,1	3,02	3,11	3,03	2,94	3,03	2,93
❶ Absorbed power	kW	106	119,5	134	147,7	166,4	182,9	203,2	222,7
❶ 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
❷ TCAVTL Sound pressure	dB(A)	65,5	65,5	65,5	65,5	65,5	66,5	66,5	66,5
❷ TCAVQL Sound pressure	dB(A)	56,5	56,5	56,5	56,5	56,5	57,5	57,5	57,5
❷ TCAVTL Sound power	dB(A)	98	98	98	98	98	99	99	99
❷ TCAVQL Sound power	dB(A)	89	89	89	89	89	90	90	90
Screw compressor/steps	n.	2/ CONTINUOUS LINEAR REGULATION (25-100%)							
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	5990	5990	5990	7150	7150
H - Height	mm	2480	2480	2480	2480	2480	2480	2480	2480
P - Depth	mm	2260	2260	2260	2260	2260	2260	2260	2260
❶ TCAVTL weight	kg	3120	3125	3150	3515	4270	4300	4810	4840
❶ TCAVQL weight	kg	3395	3400	3425	3790	4650	4680	5210	5240
SEASONAL ENERGY PERFORMANCE									
TCAVBL MODEL SEASONAL PERFORMANCE IN COOLING MODE		2335	2365	2405	2465	2515	2565	2645	2705
❶ Pdesignc (EN 14825)	kW	333,6	370,6	406,5	464,5	520,4	565,4	650,4	708,4
❶ SEER (EN 14825)		4,62	4,59	4,57	4,64	4,58	4,55	4,62	4,59
❷ 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
❶ Pdesignc (EN 14825)	kW	343,6	383,6	427,6	478,5	532,4	583,4	664,4	719,4
❶ SEER (EN 14825)		4,8	4,72	4,71	4,77	4,71	4,72	4,77	4,76
❷ 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
❶ Pdesignc (EN 14825)	kW	333,7	372,6	410,6	474,5	511,5	560,4	638,5	698,4
❶ SEER (EN 14825)		4,73	4,63	4,61	4,72	4,68	4,61	4,69	4,67
❷ ηs,c	%	186	182	181	186	184	181	185	184
TCAVBZ MODEL		2335	2365	2405	2465	2515	2565	2645	2705
❶ Nominal cooling capacity	kW	334,6	371,6	408,5	466,5	522,3	567,4	653,4	711,4
❶ E.E.R.		3,09	2,98	2,93	3,07	2,97	2,9	3,03	2,97
❶ 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
❷ Sound pressure	dB(A)	65	65	66	66	66	66	66,5	66,5
❷ Sound power	dB(A)	97	97	98	98	98	98	99	99
Screw compressor/steps	n.	2/ CONTINUOUS LINEAR REGULATION (25-100%)							
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	4840	4840	4840	5990	5990
H - Height	mm	2480	2480	2480	2480	2480	2480	2480	2480
P - Depth	mm	2260	2260	2260	2260	2260	2260	2260	2260
❶ TCAVBZ weight	kg	2760	2770	2790	3220	3780	3990	4330	4360
TCAVTZ-TCAVQZ MODEL		2345	2385	2425	2475	2525	2585	2655	2715
❶ Nominal cooling capacity	kW	344,6	384,6	429,6	480,5	534,4	585,4	667,4	722,4
❶ Nominal cooling capacity	kW	334,7	373,6	412,6	476,5	513,5	562,4	641,5	701,4
❶ E.E.R.		3,34	3,3	3,27	3,32	3,3	3,28	3,35	3,32
❶ E.E.R.		3,25	3,18	3,1	3,18	3,11	3,02	3,11	3
❶ Absorbed power	kW	103,2	116,5	131,4	144,7	161,9	178,5	199,2	217,6
❶ 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
2/ CONTINUOUS LINEAR REGULATION (25-100%)									
Screw compressor/steps	n.								
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	5990	5990	5990	7150	7150
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	3120	3125	3150	3515	4270	4300	4810	4840
① TCAVQZ weight	kg	3395	3400	3425	3790	4650	4680	5210	5240
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 compressor/steps	n.								
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	5990	7150	7150	8250	8250	9350	9350	10450
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	4390	5400	5820	6210	6270	6780	6800	7180
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 compressor/steps	n.								
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	7150	8250	8250	9350	9350	10450	10450	11550
H - Height	mm	2480	2480	2480	2480	2480	2480	2480	2480
P - Depth	mm	2260	2260	2260	2260	2260	2260	2260	2260
① TCAVTL weight	kg	4860	5705	6135	6680	6745	7130	7150	7555
① TCAVQL weight	kg	5260	6105	6535	7080	7145	7530	7550	7955
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 compressor/steps	n.								
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	5990	7150	7150	8250	8250	9350	9350	10450
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	4390	5400	5820	6210	6270	6780	6800	7180
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 compressor/steps	n.								
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	7150	8250	8250	9350	9350	10450	10450	11550
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	4860	5705	6135	6680	6745	7130	7150	7555
④ TCAVQZ weight	kg	5260	6105	6535	7080	7145	7530	7550	7955
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	
① Nominal cooling capacity						kW	1399,1	1503,2	
① E.E.R.							2,94	2,92	
① Absorbed power						kW	475,9	514,8	
TCAVBL MODEL							21405	21505	
② Sound pressure						dB(A)	70	71	
③ Sound power						dB(A)	103	104	
Screw compressor/steps						n.			
Circuits						n.	2	2	
Electrical supply						V-ph-Hz	400-3-50	400-3-50	
DIMENSIONS AND WEIGHTS							21405	21505	
L - Width						mm	11550	11550	
H - Height						mm	2480	2480	
P - Depth						mm	2260	2260	
④ TCAVBL weight						kg	8560	9010	
TCAVTL-TCAVQL MODEL							21455	21565	
① Nominal cooling capacity						kW	1443,2	1557,1	
① Nominal cooling capacity						kW	1400,3	1501,2	
① E.E.R.							3,12	3,08	
① E.E.R.							2,92	2,86	
① Absorbed power						kW	462,6	505,6	
① Absorbed power						kW	479,6	524,9	
TCAVTL-TCAVQL MODEL							21455	21565	
② TCAVTL Sound pressure						dB(A)	70	71	
② TCAVQL Sound pressure						dB(A)	62	63	
③ TCAVTL Sound power						dB(A)	103	104	
③ TCAVQL Sound power						dB(A)	95	96	
Screw compressor/steps						n.			
Circuits						n.	2	2	
Electrical supply						V-ph-Hz	400-3-50	400-3-50	
DIMENSIONS AND WEIGHTS							21455	21565	
L - Width						mm	12710	12710	
H - Height						mm	2480	2480	

P - Depth	mm	2260	2260
❶ TCAVTL weight	kg	9390	9850
❶ TCAVQL weight	kg	9810	10270
SEASONAL ENERGY PERFORMANCE			
TCAVBL MODEL SEASONAL PERFORMANCE IN COOLING MODE		21405	21505
❶ Pdesignc (EN 14825)	kW	1399,1	1503,2
❶ SEER (EN 14825)		4,56	4,58
❷ ηs,c	%	179	180
TCAVTL MODEL SEASONAL PERFORMANCE IN COOLING MODE		21455	21565
❶ Pdesignc (EN 14825)	kW	1443,2	1557,1
❶ SEER (EN 14825)		4,74	4,72
❷ ηs,c	%	187	186
TCAVQL MODEL SEASONAL PERFORMANCE IN COOLING MODE		21455	21565
❶ Pdesignc (EN 14825)	kW	1400,3	1501,2
❶ SEER (EN 14825)		4,68	4,63
❷ ηs,c	%	184	182
TCAVBZ MODEL		21405	21505
❶ Nominal cooling capacity	kW	1406,1	1507,2
❶ E.E.R.		3,02	2,99
❶ Absorbed power	kW	465,6	504,1
TCAVBZ MODEL		21405	21505
❷ Sound pressure	dB(A)	70	71
❷ Sound power	dB(A)	103	104
Screw compressor/steps	n.		
Circuits	n.	2	2
Electrical supply	V-ph-Hz	400-3-50	400-3-50
DIMENSIONS AND WEIGHTS		21405	21505
L - Width	mm	11550	11550
H - Height	mm	2480	2480
P - Depth	mm	2260	2260
❶ TCAVBZ weight	kg	8560	9010
TCAVTZ-TCAVQZ MODEL		21455	21565
❶ Nominal cooling capacity	kW	1450,2	1564,1
❶ Nominal cooling capacity	kW	1407,3	1502,2
❶ E.E.R.		3,19	3,16
❶ E.E.R.		3	2,92
❶ Absorbed power	kW	454,6	495
❶ Absorbed power	kW	469,1	514,5
TCAVTZ-TCAVQZ MODEL		21455	21565
❷ TCAVTZ Sound pressure	dB(A)	70	71
❷ TCAVQZ Sound pressure	dB(A)	62	63
❷ TCAVTZ Sound power	dB(A)	103	104
❷ TCAVQZ Sound power	dB(A)	95	96
Screw compressor/steps	n.		
Circuits	n.	2	2
Electrical supply	V-ph-Hz	400-3-50	400-3-50
DIMENSIONS AND WEIGHTS		21455	21565
L - Width	mm	12710	12710
H - Height	mm	2480	2480
P - Depth	mm	2260	2260
❶ TCAVTZ weight	kg	9390	9850
❶ TCAVQZ weight	kg	9810	10270
SEASONAL ENERGY PERFORMANCE			
TCAVBZ MODEL SEASONAL PERFORMANCE IN COOLING MODE		21405	21505
❶ Pdesignc (EN 14825)	kW	1406,1	1507,2
❶ SEER (EN 14825)		4,6	4,6
❷ ηs,c	%	181	181
TCAVTZ MODEL SEASONAL PERFORMANCE IN COOLING MODE		21455	21565
❶ Pdesignc (EN 14825)	kW	1450,2	1564,1
❶ SEER (EN 14825)		4,79	4,76
❷ ηs,c	%	189	188
TCAVQZ MODEL SEASONAL PERFORMANCE IN COOLING MODE		21455	21565
❶ Pdesignc (EN 14825)	kW	1407,3	1502,2
❶ SEER (EN 14825)		4,71	4,66
❷ ηs,c	%	186	183

Data at the following conditions:

- ❶ Air: 35°C - Water: 12/7°C.
- ❷ In open field (Q = 2) at 10 m from the unit.
- ❸ Total sound power level in dB(A) based on measurements carried out in accordance with regulation UNI EN-ISO 9614.
- ❹ Weight referred to the unit without load and not accessorised.
- TCAVQL super-silenced versions.
Performance according to EN 14511.
- ❶ Low temperature application (7°C)
- ❷ Seasonal energy efficiency: low temperature cooling (EU Regulation 2016/2281)
- Data at the following conditions:
- ❶ Air: 35°C - Water: 12/7°C.
- ❷ In open field (Q = 2) at 10 m from the unit.
- ❸ Total sound power level in dB(A) based on measurements carried out in accordance with regulation UNI EN-ISO 9614.
- ❹ Weight referred to the unit without load and not accessorised.
- TCAVQZ super-silenced versions.
Performance according to EN 14511.
- ❶ Low temperature application (7°C)



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