

Aircooled liquid chillers TFV series, turbocor oil free compressors, horizontal tube falling film evaporator, epoxy painted microchannel condenser and axial EC fans, brazed plate economizer

R1234ze

Process Cooling Application	Model	250	280	310	350	390	440	500	560	620	700	780	850	920	1004	1110	1215
NOMINAL COOLING CAPACITY (1)	kW	200	224	248	280	312	352	400	448	496	560	624	680	736	805	890	970
TOTAL COMPRESSORS NOMINAL ABSORBED POWER (1)	kW	48,2	53,9	63,0	65,8	71,7	87,9	98,4	107,8	125,9	141,0	152,5	162,5	187,0	194,3	195,0	230,0
EER		3,35	3,42	3,33	3,37	3,51	3,35	3,29	3,42	3,33	3,30	3,44	3,45	3,32	3,52	3,61	3,4
ESEER		5,01	5,08	4,69	5,17	5,20	4,63	4,98	5,05	4,64	4,86	4,89	4,61	4,56	4,71	5,25	5,21
COMPRESSORS NUMBER	nr.	1	1	1	1	1	2	2	2	2	2	2	3	3	3	3	3
COMPRESSORS MODEL	Type	TG230-H-3-ST-SL			TG310-H-3-ST-SL			TG230-H-3-ST-SL			TG310-H-3-ST-SL						
REFRIGERATING CIRCUITS	nr.	1	1	1	1	1	2	2	2	2	2	2	3	3	3	3	3
REFRIGERANT		R1234ze															
HYDRAULIC SECTION																	
NOMINAL WATER FLOW	m3/h	34,4	38,5	42,7	48,1	53,7	60,5	68,8	77,1	85,2	96,3	107,3	116,8	126,6	138,5	153,1	166,8
WATER FLOW RANGE	m3/h	32 ÷ 72	32 ÷ 72	32 ÷ 82	33 ÷ 82	35 ÷ 92	35 ÷ 92	49 ÷ 108	49 ÷ 120	49 ÷ 125	72 ÷ 160	72 ÷ 177	72 ÷ 202	72 ÷ 161	72 ÷ 200	123 ÷ 240	125 ÷ 248
TYPE OF EVAPORATOR		horizontal tube falling film evaporator															
EVAPORATOR PRESSURE DROP	kPa	31	38	46	46	49	42	54	53	54	48	52	56	56	54	50	54
ECONOMIZER	Type plate	NO	YES	NO	NO	YES	NO	NO	YES	NO	NO	YES	NO	NO	YES	YES	YES
FAN SECTION (AXIAL)																	
EC fans																	
TOTAL AIR FLOW	m3/h	103000	103000	103000	154500	154500	154500	206000	206000	206000	257500	257500	309000	309000	309000	463500	463500
FANS	nr.	4	4	4	6	6	6	8	8	8	10	10	12	12	12	18	18
FANS ABSORBED POWER	kW	11,52	11,52	11,52	17,28	17,28	17,28	23,04	23,04	23,04	28,80	28,80	34,56	34,56	34,56	51,84	51,84
FANS ABSORBED CURRENT	A	17,60	17,60	17,60	26,40	26,40	26,40	35,20	35,20	35,20	44,00	44,00	52,80	52,80	52,80	79,20	79,20
IP54 protection rating, chillers suitable for outdoor installation																	
NOMINAL ABSORBED POWER	kW	60,7	65,4	74,5	83,0	89,0	105,1	121,4	130,8	149,0	169,9	181,3	197,1	221,6	228,9	246,8	281,2
MAXIMUM ABSORBED CURRENT(F.L.A.)	A	104,9	112,6	133,7	147,1	157,0	184,1	209,8	225,1	267,3	301,4	320,5	357,2	397,9	410,0	437,5	495,0
MAXIMUM PEAK CURRENT (L.R.A.)	A	62,3	68,0	72,5	75,9	90,0	94,0	106,9	114,6	135,7	152,7	162,3	240,2	267,3	275,4	293,7	332,0
ELECTRIC FEED	V/Ph/Hz	400/3/50															
NOISE DATA																	
SOUND PRESSURE (2)	dB(A)	63,3	63,3	64,2	65,5	65,5	65,2	66,3	66,3	67,2	67,9	67,9	68,9	68,9	68,9	70,3	70,3
SOUND PRESSURE FOR LOW NOISE CONFIGURATION(2)	dB(A)	62,9	62,9	63,6	64,9	64,9	64,8	66,0	66,0	66,3	67,2	67,2	68,0	68,0	68,0	69,7	69,7
SOUND PRESSURE FOR SUPER LOW NOISE CONFIGURATION(2)	dB(A)	60,1	60,1	60,7	62,2	62,2	62,0	63,1	63,1	63,7	64,5	64,5	65,5	65,5	65,5	67,0	67,0
DIMENSIONS AND WEIGHT																	
LENGTH	mm	3300	3300	3300	4600	4600	4600	5900	5900	5900	7200	7200	8500	8500	8500	12790	12790
WIDTH	mm	2210	2210	2210	2210	2210	2210	2210	2210	2210	2210	2210	2210	2210	2210	2210	2210
HEIGHT	mm	2500	2500	2500	2500	2500	2500	2500	2500	2500	2500	2500	2500	2500	2500	2500	2500

The manufacturer reserves the right to modify specifications without notice.

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 revision: 0

Data referred to:

(1) Inlet/Outlet water temperature = +12/+7 °C - Condenser air temperature = +35°C; fouling factor = 0.000043 m²K/W

(2) Sound pressure level referred to measures according to normative ISO3744, pressure level at distance of 10 m, referred to free field on reflecting surface

ATTENTION:

> R-1234ze refrigerant type

> This refrigerant is classified in group 2 'non-hazardous' according to the criteria of the Pressure Equipment Directive (PED) 97/23 / EC and 2014/68 / EC. According to ISO-817, the R-1234ze is classified in the A2L security group

> Local codes the construction and safety standards must be respected

> In the absence of local codes and standards, consult the guide to EN-378 (2017) (safety requirements for substances classified as A2L) or ISO-5149 (2014) (for substances classified as A2L)

> It is the responsibility of the installer to obtain approval from the local construction authorities