

TECS2 HFO-Z

0351-1053

HIGH EFFICIENCY AIR COOLED CHILLER FOR OUTDOOR INSTALLATION (339-1017 kW)

Units for outdoor installation, characterised by an extremely compact layout and 4th generation refrigerant HFO 1234ze. TECS2 HFO-Z units easily adapt to different thermal load conditions thanks to the precise thermoregulation together with the use of inverter technology.



TECS2 HFO-Z / SL-CA-E			0351	0702	1053
Power supply	V/ph/Hz		400/3/50	400/3/50	400/3/50
PERFORMANCE					
COOLING ONLY (GROSS VALUE)					
Cooling capacity	(1)	kW	339	679	1017
Total power input	(1)	kW	96,3	192	282
EER	(1)	kW/kW	3,52	3,53	3,60
COOLING ONLY (EN14511 VALUE)					
Cooling capacity	(1)(2)	kW	338	677	1014
EER	(1)(2)	kW/kW	3,48	3,50	3,55
Cooling energy class			A	A	A
SEPR HT	(3)(4)		6,97	7,15	6,82
COOLING ONLY					
16°C/10°C					
Cooling capacity	(5)	kW	369	737	1109
Total power input	(5)	kW	100	200	293
EER	(5)	kW/kW	3,68	3,68	3,78
23°C/15°C					
Cooling capacity	(6)	kW	427	852	1283
Total power input	(6)	kW	106	214	308
EER	(6)	kW/kW	4,02	3,99	4,17
EXCHANGERS					
HEAT EXCHANGER USER SIDE IN REFRIGERATION					
Water flow	(1)	l/s	16,22	32,45	48,66
Pressure drop	(1)(2)	kPa	27,4	23,1	45,7
REFRIGERANT CIRCUIT					
Compressors nr.		N°	1	2	3
No. Circuits		N°	1	1	2
Refrigerant charge		kg	150	475	550
NOISE LEVEL					
Sound Pressure	(7)	dB(A)	58	59	60
Sound power level in cooling	(8)(9)	dB(A)	90	92	93
SIZE AND WEIGHT					
A	(10)	mm	4000	7900	9700
B	(10)	mm	2260	2260	2260
H	(10)	mm	2430	2430	2430
Operating weight	(10)	kg	3130	6450	7610

Notes:

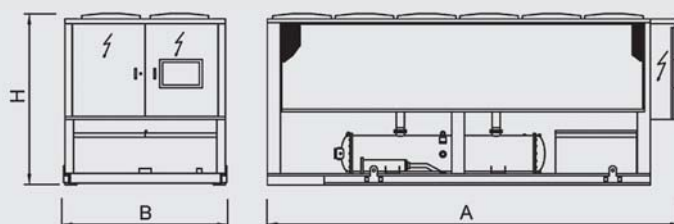
- Plant (side) cooling exchanger water (in/out) 12°C/7°C; Source (side) heat exchanger air (in) 35°C.
- Values in compliance with EN14511-3:2013.
- Seasonal space heating energy index
- Seasonal energy efficiency of high temperature process cooling [REGULATION (EU) N. 2016/2281]
- Plant (side) cooling exchanger water (in/out) 16°C/ 10°C; Source (side) heat exchanger air (in) 35°C.
- Acqua scambiatore freddo lato utenza (in/out) 23°C/15°C; Aria scambiatore lato sorgente (in) 35°C.
- Average sound pressure level at 10m distance, unit in a free field on a reflective surface; non-binding value calculated from the sound power level.
- Sound power on the basis of measurements made in compliance with ISO 9614.
- Sound power level in cooling, outdoors.
- Unit in standard configuration/execution, without optional accessories.

The units highlighted in this publication contain HFC HFO-1234ze [GWP₁₀₀ 7] fluorinated greenhouse gases.

Certified data in EUROVENT

Accessories:

- ▶ VPF (Variable Primary Flow) kit: variable flow pumps with on board regulation
- ▶ Hydronic group
- ▶ Set-up for remote connectivity with ModBus/Echelon protocol cards



TECS2-W HFO-Z 0351-1414



HIGH EFFICIENCY WATER COOLED CHILLER FOR INDOOR INSTALLATION (340-1364 kW)

Units for indoor installation, characterised by a minimum footprint and 4th generation refrigerant HFO 1234ze. Conceived to be extremely flexible and reliable units, TECS2-W HFO-Z are also available with the /H function (heat pump reversible on hydraulic side).



TECS2-W HFO-Z / HC			0351	0712	1053	1414
Power supply	V/ph/Hz		400/3/50	400/3/50	400/3/50	400/3/50
PERFORMANCE						
COOLING ONLY (GROSS VALUE)						
Cooling capacity	(1)	kW	340	676	1015	1364
Total power input	(1)	kW	63,0	127	190	251
EER	(1)	kW/kW	5,39	5,34	5,35	5,43
COOLING ONLY (EN14511 VALUE)						
Cooling capacity	(1)(2)	kW	339	674	1013	1361
EER	(1)(2)	kW/kW	5,18	5,17	5,19	5,29
Cooling energy class			A	A	A	A
SEPR HT	(3)(4)		9,28	9,27	9,42	9,71
COOLING ONLY 16°C/10°C						
Cooling capacity	(5)	kW	368	734	1102	1477
Total power input	(5)	kW	61,6	124	186	245
EER	(5)	kW/kW	5,98	5,91	5,93	6,03
COOLING ONLY 23°C/15°C						
Cooling capacity	(6)	kW	402	803	1206	1610
Total power input	(6)	kW	56,2	114	170	223
EER	(6)	kW/kW	7,15	7,06	7,09	7,23
EXCHANGERS						
HEAT EXCHANGER USER SIDE IN REFRIGERATION						
Water flow	(1)	l/s	16,24	32,33	48,54	65,22
Pressure drop	(1)(2)	kPa	32,9	29,0	31,1	33,1
HEAT EXCHANGER SOURCE SIDE IN REFRIGERATION						
Water flow	(1)	l/s	19,19	38,25	57,42	76,97
Pressure drop	(1)(2)	kPa	40,8	39,6	32,0	23,0
REFRIGERANT CIRCUIT						
Compressors nr.		N°	1	2	3	4
No. Circuits		N°	1	1	1	1
Refrigerant charge	kg		95,0	230	360	390
NOISE LEVEL						
Sound Pressure	(7)	dB(A)	74	76	77	78
Sound power level in cooling	(8)(9)	dB(A)	92	94	96	97
SIZE AND WEIGHT						
A	(10)	mm	2990	3490	4990	5450
B	(10)	mm	950	1300	1300	1300
H	(10)	mm	1900	1800	1800	1990
Operating weight	(10)	kg	1570	3010	4380	5240

Notes:

- 1 Plant (side) cooling exchanger water (in/out) 12°C/7°C; Source (side) heat exchanger water (in/out) 30°C/35°C.
- 2 Values in compliance with EN14511-3:2013.
- 3 Seasonal space heating energy index
- 4 Seasonal energy efficiency of high temperature process cooling [REGULATION (EU) N. 2016/2281]
- 5 User side heat exchanger water temperature (in/out) 15°C/10°C; source side heat exchanger water temperature (in/out) 30°C/35°C.
- 6 User side heat exchanger water temperature (in/out) 23°C/15°C; source side heat exchanger water temperature (in/out) 30°C/35°C.
- 7 Average sound pressure level at 1m distance, unit in a free field on a reflective surface; non-binding value calculated from the sound power level.
- 8 Sound power on the basis of measurements made in compliance with ISO 9614.
- 9 Sound power level in cooling, indoors.
- 10 Unit in standard configuration/execution, without optional accessories.

The units highlighted in this publication contain HFC HFO-1234ze [GWP₁₀₀ 7] fluorinated greenhouse gases.

Certified data in EUROVENT

Accessories:

- ▶ Integral acoustical enclosure (type base or plus)
- ▶ VPF (Variable Primary Flow) system
- ▶ Several devices for condensation's control
- ▶ Leak detector
- ▶ Set-up for remote connectivity with ModBus/Echelon protocol cards

