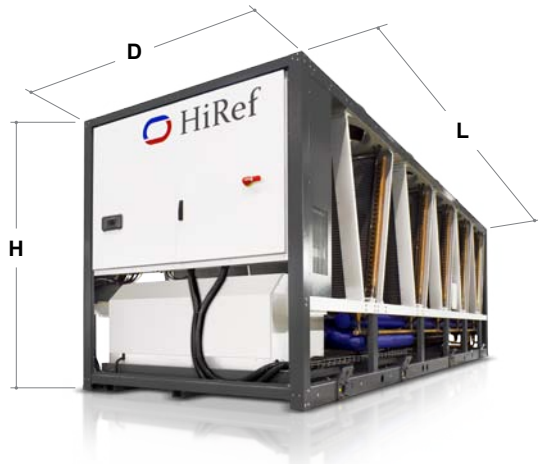


TVX

CHILLERS
AIR CONDENSED,
WITH INVERTER DRIVEN
SCREW COMPRESSORS



VERSION C - GOLD ONLY	TVX	0381 C	0401 C	0451 C	0481 C	0531 C	0581 C	0621 C	0661 C	0721 C	0801 C	0831 C	0901 C	0971 C	1041 C	1161 C	1231 C	1351 C	1421 C
Cooling Capacity @ 12/7°C ; 35°C	kW	345.0	369.8	411.8	446.8	482.6	525.2	568.9	611.4	655.7	715.8	754.2	818.9	868.8	938.1	1038.4	1113.2	1217.5	1288.2
Total Power Input	kW	105.5	116.5	129.6	140.5	150.6	167.0	178.2	191.8	207.6	225.5	236.6	256.8	273.9	299.7	334.2	350.9	381.3	406.7
EER (UNI 14511)		3.25	3.15	3.15	3.16	3.18	3.12	3.17	3.16	3.13	3.15	3.16	3.16	3.14	3.11	3.09	3.15	3.17	3.14
Cooling Capacity @ 16/10°C ; 35°C	kW	384.0	407.6	452.7	491.2	531.6	577.3	625.3	671.4	721.5	779.8	822.7	894.1	948.6	1031.5	1138.3	1215.8	1331.7	1409.9
Total Power Input	kW	110.2	121.4	135.3	146.7	156.6	173.7	185.7	200.5	215.8	234.0	245.8	266.4	284.5	311.2	347.7	365.1	396.1	423.5
EER (UNI 14511)		3.48	3.36	3.35	3.35	3.39	3.32	3.37	3.35	3.34	3.33	3.35	3.36	3.33	3.31	3.27	3.33	3.36	3.33
Eurovent efficiency class		A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
ESEER		3.91	4.04	3.89	3.90	3.91	3.74	4.04	4.09	3.77	3.90	3.87	3.78	3.92	4.04	3.87	3.89	3.97	3.96
Sound power	dB(A)	92	92	95	96	97	96	96	96	97	97	97	97	98	98	99	99	100	100
Acoustic power Low noise version	dB(A)	87	87	90	91	92	91	91	91	92	92	92	93	93	93	94	94	95	95
Dimensions (LxDxH)	mm	4900 x 2255 x 2650				6150 x 2255 x 2650				7400 x 2255 x 2650				8950 x 2255 x 2650				11500 x 2255 x 2650	

FREE-COOLING VERSION	TVX	0311 F	0331 F	0361 F	0381 F	0421 F	0451 F	0481 F	0531 F	0581 F	0621 F	0661 F	0721 F	0801 F	0831 F	0901 F	0971 F	1041 F	1101 F	1161 F
Cooling Capacity @ 12/7°C ; 35°C	kW	287.7	305.0	336.0	357.5	387.6	409.6	431.2	482.4	512.9	553.8	592.1	631.5	679.8	727.3	802.7	850.8	914.5	967.8	1021.2
Total Power Input	kW	82.9	89.4	95.5	103.0	111.1	117.9	124.8	134.6	143.7	153.2	170.4	181.6	193.2	208.2	224.8	241.6	259.5	274.8	290.0
EER (UNI 14511)		3.47	3.41	3.52	3.47	3.49	3.47	3.46	3.58	3.57	3.61	3.47	3.48	3.52	3.49	3.57	3.52	3.52	3.52	3.52
Total Free Cooling temperature	°C	1.3	0.8	2.1	1.7	2.7	2.3	1.9	2.5	2.0	2.6	2.1	1.7	2.1	1.4	1.7	1.2	0.7	0.2	-0.2
Cooling Capacity @ 16/10°C ; 35°C	kW	319.8	338.1	373.1	397.0	430.5	453.4	477.3	533.1	566.0	614.4	657.8	700.9	754.8	805.8	885.9	937.4	1009.3	1066.8	1124.3
Total Power Input	kW	85.8	92.3	98.3	106.1	114.3	121.5	128.6	138.1	147.6	157.3	175.7	187.3	198.6	213.8	230.4	247.8	267.0	282.6	298.2
EER (UNI 14511)		3.73	3.66	3.80	3.74	3.77	3.73	3.71	3.86	3.83	3.91	3.74	3.74	3.80	3.77	3.85	3.78	3.78	3.77	3.77
Total Free Cooling temperature	°C	4.3	3.8	5.3	4.8	5.9	5.4	5.0	5.7	5.2	5.8	5.3	4.8	5.2	4.5	4.8	4.3	3.7	3.2	2.8
Cooling Capacity @ 26/20°C ; 35°C	kW	381.3	404.5	447.3	538.4	584.4	553.8	586.0	635.2	677.8	734.5	794.4	850.7	923.7	989.8	1072.5	1144.0	1215.6	1291.0	1366.4
Total Power Input	kW	92.0	98.8	104.1	118.4	127.0	130.1	138.2	145.8	156.4	166.5	186.5	199.5	211.8	228.0	243.6	263.3	282.9	301.2	319.4
EER (UNI 14511)		4.14	4.09	4.30	4.55	4.60	4.26	4.24	4.36	4.33	4.41	4.26	4.26	4.36	4.34	4.40	4.34	4.30	4.29	4.28
Total Free Cooling temperature	°C	12.1	11.7	13.2	12.7	13.9	13.5	13.1	13.7	13.2	13.8	13.2	12.7	13.2	12.5	12.8	12.3	11.7	11.2	10.8
Eurovent efficiency class		A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
ESEER		3.87	4.01	4.00	4.04	4.00	4.03	4.03	3.86	3.90	3.93	3.79	3.80	3.75	3.90	3.91	4.06	4.07	4.12	4.12
Sound power	dB(A)	92	92	92	92	93	93	92	96	96	97	96	97	97	97	97	98	98	98	98
Acoustic power Low noise version	dB(A)	87	87	87	87	88	88	87	91	91	92	91	92	92	92	92	93	93	93	93
Dimensions (LxDxH)	mm	4900 x 2255 x 2650			6150 x 2255 x 2650			7400 x 2255 x 2650			8950 x 2255 x 2650			10200 x 2255 x 2650			11500 x 2255 x 2650			

Data declared with the use of refrigerant R134a

Also available with 60 Hz power supply

ITALIAN
COOLING
SOLUTIONS

HiRef

CHILLERS
AIR CONDENSED, WITH INVERTER DRIVEN SCREW COMPRESSORS

TVX



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384 - 1410 kW



CHILLERS

AIR CONDENSED, WITH INVERTER DRIVEN SCREW COMPRESSORS

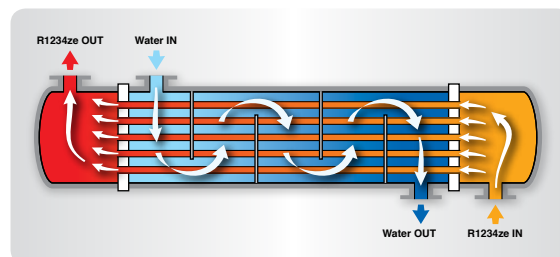
TVX units represent the new standard of air condensed chillers designed for high energy efficiency and environmentally friendly processes. The low environmental impact is obtained thanks to new HFO refrigerants with low GWP (Global Warming Potential), whilst the high efficiency/footprint ratios are achieved with special V-shaped design of the finned coils and their dimension, the largest in the market. The Free-Cooling version, whose heat exchangers are twice as big as the market average, provides high performance in the Free-Cooling operating mode. The high thermodynamic efficiency (low TEWI - Total Equivalent Warming Impact - value) comes together with easy maintainability and accessibility of the compressors installed in the HiRail® extractable module, which reduces the emitted noise.

SCREW COMPRESSORS WITH INVERTER



Excellent capacity modulation and high efficiency at partial loads.

NEW HEAT EXCHANGE CONCEPT



The single pass shell and tube evaporator makes it possible to achieve excellent thermodynamic efficiency values thanks to the complete countercurrent in the heat exchange.

SILENT AND ACCESSIBLE: HI-RAIL®



The compressor hoods drastically reduce the noise emissions thanks to soundproofing materials. The compressors are also **removable** by means of sliders: this means that all maintenance operations are considerably easier. The compressors can also be removed through a hook from above and the use of a crane.

- » Refrigerant R1234ze
Also available with refrigerant R134a
- » Capacity modulation:
with sliding valve,
with inverter on both compressors,
or with inverter on one compressor only.
- » EC fans
- » Electronically-controlled expansion valve
- » HI-NODE® supervision
- » Monitoring and limiting of the maximum power input

MODULARITY AND EFFICIENCY

The configuration with "V"-type and deep modular condensing coils allows large exchange surfaces and consequently high thermal efficiency in relation to the unit footprint. The Free-Cooling version features exchangers sized so as to get a Total Free-Cooling Temperature (TFT) of 10 °C*.

* Data Center conditions with chilled water 19/25°C

NEW REFRIGERANT R1234ze

The TVX range of air-to-water chillers uses the new HFO refrigerant with low GWP ($GWP_{R1234ze}=6$) with a view to Green Technology. (Also available with refrigerant R134a).



ESEER = 4.6**

** With at least an inverter driven compressor

