



VHA

**AIR COOLED CHILLER WITH
SCROLL OR RECIPROCATING
COMPRESSORS AND AXIAL
FANS FOR OUTDOOR
INSTALLATION**



VHA Range 19 - 1196 kW

VHA Range

Air cooled chiller with scroll or reciprocating compressors and axial fans for outdoor installation



Scroll compressors (R410A)
Reciprocating compressors (R290 or HFO1234-ze)
Dry expansion evaporator
AC or EC axial fans both 630 and 800 mm



General Description

The air cooled screw chillers of the VHA series are assembled on a self-supporting metal screwed structure, painted with epoxy powder suitably treated for outdoor installation. All units are supplied completely wired and ready to be connected to the user's plant.

Prior to delivery every machine is submitted to a performance test according to the strictest norms in force, with intervention tests of all the safety systems and components installed. Each unit is available with low-speed fan and compressor sound insulation kit (Low Noise LN version or Super Low Noise LLN) for installation in areas where noise emission must be extremely limited.

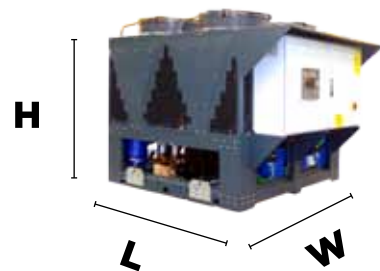
Typical units dimensions

Length: from 1.360 to 12.910 mm

Width: from 900 to 2.250 mm

Height: from 2.130 to 2.560 mm

Operating Weight: from 746 kg to 9.510 kg



Length from from 1.360 to 12.910 mm. The bigger sizes are delivered in two sections.

VHA with AC fans

R410A

Air cooled chiller with scroll or reciprocating compressors and axial fans for outdoor installation

Energymiser		VHA 1090C AC-01	VHA 1105C AC-01	VHA 1120C AC-01	VHA 1140C AC-01	VHA 1161C AC-01	VHA 1184C AC-01
CHILLER PERFORMANCE							
Refrigerant		R410A	R410A	R410A	R410A	R410A	R410A
Total cooling capacity	kW	19.06	22.26	25.24	29.01	31.32	34.98
Nominal power input	kW	6.68	8.08	8.78	10.38	11.88	13.78
E.E.R.	Coef.	2.85	2.75	2.87	2.79	2.64	2.54
Energy class		C	C	C	C	D	D
E.S.E.E.R.	Coef.	4.08	4.08	3.76	4.09	3.55	3.82
Noise Pressure Level	dB(A)	46	47	47	47	48	48
Distance	m	10	10	10	10	10	10
WORKING CONDITIONS							
Compressors type	Type	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll
Compressors number	n°	1	1	1	1	1	1
Inlet water temperature	°C	12	12	12	12	12	12
Outlet water temperature	°C	6	6	6	6	6	6
Ambient temperature	°C	35	35	35	35	35	35
Condenser coil type (*1)	Type	M	M	M	M	M	M
Evaporator type (*2)	Type	BPHE	BPHE	BPHE	BPHE	BPHE	BPHE
Power circuit voltage	V/Ph/Hz	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
Control circuit voltage	V/Ph/Hz	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50
Total power input	kW	6.68	8.08	8.78	10.38	11.88	13.78
Total running current	A	14.3	17.4	18.1	20.6	22.2	26.5
Total max current	A	21.7	24.7	26.7	30.7	33.7	38.7
Total starting current	A	100.7	144.7	144.7	149.7	160.7	199.7
DIMENSIONS							
Length with cabinet	mm	1440	1440	2560	2560	2560	2560
Width	mm	900	900	1050	1050	1050	1050
Height	mm	2130	2130	2500	2500	2500	2500
Shipping weight	kg	740	740	820	830	830	830
Operating weight	kg	746	746	826	836	836	836
(*1) M: Microchannels (*2) S&T or BPHE: Shell and Tube - Brazed Plate Heat Exchanger							

VHA with AC fans

Air cooled chiller with scroll or reciprocating compressors and axial fans for outdoor installation

VHA 1182C AC-01	VHA 1195C AC-01	VHA 1210C AC-01	VHA 1212C AC-01	VHA 1230C AC-01	VHA 1242C AC-01	VHA 1240A AC-01	VHA 1260C AC-01	VHA 1281C AC-01	VHA 1282C AC-01	VHA 1301C AC-01
R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
34.69	37.68	44.03	44.53	46.64	48.96	50.57	52.09	54.5	55.11	60.27
14.38	15.98	15.66	16.16	17.46	18.26	17.85	19.96	21.56	21.66	22.06
2.41	2.36	2.81	2.76	2.67	2.68	2.83	2.61	2.53	2.54	2.73
E	E	C	C	D	D	C	D	D	D	C
3.61	3.62	3.69	3.68	3.91	3.53	3.72	3.58	3.48	3.71	3.57
48	49	50	50	50	50	54	50	51	50	51
10	10	10	10	10	10	10	10	10	10	10
Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll
2	2	2	2	2	2	1	2	2	2	2
12	12	12	12	12	12	12	12	12	12	12
6	6	6	6	6	6	6	6	6	6	6
35	35	35	35	35	35	35	35	35	35	35
M	M	M	M	M	M	M	M	M	M	M
BPHE	BPHE	BPHE	BPHE	BPHE	BPHE	BPHE	BPHE	BPHE	BPHE	BPHE
400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50
14.38	15.98	15.66	16.16	17.46	18.26	17.85	19.96	21.56	21.66	22.06
27.8	31	32.5	34.7	35.4	37.1	31.4	39.6	41.5	42.3	42.5
40.7	43.7	48.4	49.4	52.4	53.4	52.7	57.4	60.4	61.4	64.4
76.8	102	103.5	105.7	108.9	108.1	218.7	113.1	120.5	115.8	121.5
2560	2560	2560	2560	2560	2560	2560	2560	2560	2560	2560
1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050
2500	2500	2500	2500	2500	2500	2560	2500	2500	2500	2500
890	890	940	950	940	950	880	950	960	960	970
896	896	946	956	946	956	886	956	968	968	978

VHA with AC fans

Air cooled chiller with scroll or reciprocating compressors and axial fans for outdoor installation

Energymiser		VHA 1304C AC-01	VHA 1322C AC-01	VHA 1324C AC-01	VHA 1300A AC-01	VHA 1345A AC-01	VHA 1360A AC-01
CHILLER PERFORMANCE							
Refrigerant		R410A	R410A	R410A	R410A	R410A	R410A
Total cooling capacity	kW	60.22	61.6	63.11	63.61	69.59	72.58
Nominal power input	kW	22.56	24.16	24.36	22.05	24.65	27.05
E.E.R.	Coef.	2.67	2.55	2.59	2.88	2.82	2.68
Energy class		D	D	D	C	C	D
E.S.E.E.R.	Coef.	3.51	3.78	3.62	3.99	3.7	3.59
Noise Pressure Level	dB(A)	51	51	51	54	51	55
Distance	m	10	10	10	10	10	10
WORKING CONDITIONS							
Compressors type	Type	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll
Compressors number	n°	2	2	2	1	2	2
Inlet water temperature	°C	12	12	12	12	12	12
Outlet water temperature	°C	6	6	6	6	6	6
Ambient temperature	°C	35	35	35	35	35	35
Condenser coil type (*1)	Type	M	M	M	M	M	M
Evaporator type (*2)	Type	BPHE	BPHE	BPHE	BPHE	BPHE	BPHE
Power circuit voltage	V/Ph/Hz	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
Control circuit voltage	V/Ph/Hz	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50
Total power input	kW	22.56	24.16	24.36	22.05	24.65	27.05
Total running current	A	44.6	45	47.4	38.5	45.1	47.8
Total max current	A	65.4	67.4	69.4	61.7	70.7	71.7
Total starting current	A	143.1	124	145.9	263.7	143.6	132.8
DIMENSIONS							
Length with cabinet	mm	2560	2560	2560	2560	2560	2560
Width	mm	1050	1050	1050	1050	1050	1050
Height	mm	2500	2500	2500	2560	2560	2560
Shipping weight	kg	970	970	970	950	930	1030
Operating weight	kg	978	978	978	958	938	1038
(*1) M: Microchannels (*2) S&T or BPHE: Shell and Tube - Brazed Plate Heat Exchanger							

VHA with AC fans

R410A

Air cooled chiller with scroll or reciprocating compressors and axial fans for outdoor installation

VHA 1368A AC-01	VHA 1380A AC-01	VHA 1420A AC-01	VHA 1485A AC-01	VHA 1480A AC-01	VHA 1482A AC-01	VHA 1550A AC-01	VHA 1540A AC-01	VHA 1600A AC-01	VHA 1620A AC-01	VHA 1680A AC-01
R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
73.37	74	82.67	89.66	101.03	101.14	110.57	112.49	127.22	126.82	137.79
26.55	27.35	32.45	36.85	35.9	35.7	40.6	40.6	44	44.2	49.3
2.76	2.71	2.55	2.43	2.81	2.83	2.72	2.77	2.89	2.87	2.79
C	C	D	E	C	C	C	C	C	C	C
3.62	3.9	3.69	3.52	3.74	3.75	3.85	3.67	4.11	3.75	3.77
52	55	56	60	57	57	57	57	58	58	58
10	10	10	10	10	10	10	10	10	10	10
Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll
2	1	2	1	2	2	3	2	2	2	2
12	12	12	12	12	12	12	12	12	12	12
6	6	6	6	6	6	6	6	6	6	6
35	35	35	35	35	35	35	35	35	35	35
M	M	M	M	M	M	M	M	M	M	M
BPHE	BPHE	BPHE	BPHE	BPHE	BPHE	BPHE	BPHE	BPHE	BPHE	BPHE
400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50
26.55	27.35	32.45	36.85	35.9	35.7	40.6	40.6	44	44.2	49.3
49.4	48.5	56.1	63	63.5	62.8	72.5	70.9	76.9	78.6	86.9
75.7	75.7	86.7	92.7	99.4	105.4	109.4	114.4	123.4	128.4	137.4
147.9	323.7	163.6	416.7	193.5	170.3	194.3	200.9	206.9	238.6	246.9
2560	2560	2560	2560	2560	2560	2560	2560	2410	2410	2410
1050	1050	1050	1050	1050	1050	1050	1050	2250	2250	2250
2560	2560	2560	2560	2560	2560	2560	2560	2560	2560	2560
930	960	1040	980	1130	1080	1210	1130	1550	1510	1560
938	969	1049	989	1139	1089	1219	1139	1563	1523	1573

VHA with AC fans

R410A

Air cooled chiller with scroll or reciprocating compressors and axial fans for outdoor installation

Energymiser		VHA 1720A AC-01	VHA 1760A AC-01	VHA 1865A AC-01	VHA 1970A AC-01	VHA 1900A AC-01	VHA 1114A AC-01
CHILLER PERFORMANCE							
Refrigerant		R410A	R410A	R410A	R410A	R410A	R410A
Total cooling capacity	kW	147.21	148	164.29	199.32	193.64	225.4
Nominal power input	kW	53.8	54.7	64	68.3	66.6	82.3
E.E.R.	Coef.	2.74	2.71	2.57	2.92	2.91	2.74
Energy class		C	C	D	B	B	C
E.S.E.E.R.	Coef.	3.79	3.63	3.65	4.15	3.88	3.92
Noise Pressure Level	dB(A)	58	58	60	61	59	60
Distance	m	10	10	10	10	10	10
WORKING CONDITIONS							
Compressors type	Type	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll
Compressors number	n°	3	2	2	2	3	3
Inlet water temperature	°C	12	12	12	12	12	12
Outlet water temperature	°C	6	6	6	6	6	6
Ambient temperature	°C	35	35	35	35	35	35
Condenser coil type (*1)	Type	M	M	M	M	M	M
Evaporator type (*2)	Type	BPHE	BPHE	BPHE	BPHE	BPHE	BPHE
Power circuit voltage	V/Ph/Hz	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
Control circuit voltage	V/Ph/Hz	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50
Total power input	kW	53.8	54.7	64	68.3	66.6	82.3
Total running current	A	93.3	97	111	120.7	117.5	147.3
Total max current	A	154.4	151.4	168.4	192.8	188.8	230.8
Total starting current	A	250.9	257	317.5	327.2	306.9	386.5
DIMENSIONS							
Length with cabinet	mm	2410	2410	2410	2410	2410	2410
Width	mm	2250	2250	2250	2250	2250	2250
Height	mm	2560	2560	2560	2560	2560	2560
Shipping weight	kg	1580	1570	1580	1700	1840	1860
Operating weight	kg	1593	1583	1593	1713	1855	1875
(*1) M: Microchannels (*2) S&T or BPHE: Shell and Tube - Brazed Plate Heat Exchanger							

VHA with AC fans

Air cooled chiller with scroll or reciprocating compressors and axial fans for outdoor installation

VHA 1145A AC-01	VHA 2182A AC-01	VHA 2195A AC-01	VHA 2210A AC-01	VHA 2212A AC-01	VHA 2230A AC-01	VHA 2242A AC-01	VHA 2260A AC-01	VHA 2281A AC-01	VHA 2282A AC-01	VHA 2301A AC-01
R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
298.98	72.86	79.12	90.64	92.72	97.5	100.98	107.44	114.42	113.72	124.26
102.5	27.75	30.75	31.3	31.9	34.3	36.3	39.5	41.9	42.9	43.5
2.92	2.63	2.57	2.9	2.91	2.84	2.78	2.72	2.73	2.65	2.86
B	D	D	C	B	C	C	C	C	D	C
4.2	3.61	3.88	4.15	4.2	4.21	4.07	4.04	4.18	4.09	4.09
65	51	52	54	54	54	54	54	54	54	54
10	10	10	10	10	10	10	10	10	10	10
Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll
3	4	4	4	4	4	4	4	4	4	4
12	12	12	12	12	12	12	12	12	12	12
6	6	6	6	6	6	6	6	6	6	6
35	35	35	35	35	35	35	35	35	35	35
M	M	M	M	M	M	M	M	M	M	M
BPHE	BPHE	BPHE	BPHE	BPHE	BPHE	BPHE	BPHE	BPHE	BPHE	BPHE
400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50
102.5	27.75	30.75	31.3	31.9	34.3	36.3	39.5	41.9	42.9	43.5
181.1	51.9	58.1	60.4	64	65	69	74	76.4	79.2	79.4
289.2	79.7	85.7	93.4	95.4	101.4	103.4	111.4	117.4	119.4	125.4
477.7	184.9	216	215.2	226.9	231.4	243.1	260.6	271.2	277.5	280.9
3460	2560	2560	2560	2560	2560	2560	2560	2560	2560	2410
2250	1050	1050	1050	1050	1050	1050	1050	1050	1050	2250
2560	2560	2560	2560	2560	2560	2560	2560	2560	2560	2560
2370	1060	1080	1120	1130	1130	1130	1140	1140	1140	1500
2387	1071	1091	1131	1141	1141	1141	1151	1151	1151	1511

VHA with AC fans

Air cooled chiller with scroll or reciprocating compressors and axial fans for outdoor installation

Energymiser		VHA 2304A AC-01	VHA 2322A AC-01	VHA 2324A AC-01	VHA 2345A AC-01	VHA 2360A AC-01	VHA 2368A AC-01
CHILLER PERFORMANCE							
Refrigerant		R410A	R410A	R410A	R410A	R410A	R410A
Total cooling capacity	kW	126.06	131.4	134.14	139.18	145.16	157.56
Nominal power input	kW	43.9	45.7	46.3	49.3	54.1	52.2
E.E.R.	Coef.	2.87	2.88	2.9	2.82	2.68	3.02
Energy class		C	C	C	C	D	B
E.S.E.E.R.	Coef.	4.27	4.15	4.32	3.9	3.84	4.23
Noise Pressure Level	dB(A)	54	54	54	54	58	57
Distance	m	10	10	10	10	10	10
WORKING CONDITIONS							
Compressors type	Type	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll
Compressors number	n°	4	4	4	4	4	4
Inlet water temperature	°C	12	12	12	12	12	12
Outlet water temperature	°C	6	6	6	6	6	6
Ambient temperature	°C	35	35	35	35	35	35
Condenser coil type (*1)	Type	M	M	M	M	M	M
Evaporator type (*2)	Type	BPHE	BPHE	BPHE	BPHE	BPHE	BPHE
Power circuit voltage	V/Ph/Hz	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
Control circuit voltage	V/Ph/Hz	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50
Total power input	kW	43.9	45.7	46.3	49.3	54.1	52.2
Total running current	A	82.8	81.6	86.8	90.2	95.6	100.8
Total max current	A	127.4	131.4	135.4	141.4	143.4	158.8
Total starting current	A	301.7	288.1	314.7	325.8	336.6	343.6
DIMENSIONS							
Length with cabinet	mm	2410	2410	2410	2410	2410	2410
Width	mm	2250	2250	2250	2250	2250	2250
Height	mm	2560	2560	2560	2560	2560	2560
Shipping weight	kg	1500	1500	1500	1510	1710	1610
Operating weight	kg	1511	1511	1511	1521	1721	1621
(*1) M: Microchannels (*2) S&T or BPHE: Shell and Tube - Brazed Plate Heat Exchanger							

VHA with AC fans

R410A

Air cooled chiller with scroll or reciprocating compressors and axial fans for outdoor installation

VHA 2420A AC-01	VHA 2480A AC-01	VHA 2482A AC-01	VHA 2550A AC-01	VHA 2540A AC-01	VHA 2600A AC-01	VHA 2620A AC-01	VHA 2680A AC-01	VHA 2720A AC-01	VHA 2760A AC-01	VHA 2865A AC-01
R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
181.08	205.02	202.28	221.14	224.98	261.9	260.96	283.8	303.42	305	344.02
61	70.4	71.4	81.2	81.2	88.5	88.5	98.5	106.9	108.9	124.5
2.97	2.91	2.83	2.72	2.77	2.96	2.95	2.88	2.84	2.8	2.76
B	B	C	C	C	B	B	C	C	C	C
4.29	3.96	4.23	4.04	3.8	3.95	4.31	4.23	3.84	4.18	4.03
60	60	60	60	60	61	61	61	62	62	63
10	10	10	10	10	10	10	10	10	10	10
Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll
4	4	4	6	4	4	4	4	6	4	4
12	12	12	12	12	12	12	12	12	12	12
6	6	6	6	6	6	6	6	6	6	6
35	35	35	35	35	35	35	35	35	35	35
M	M	M	M	M	M	M	M	M	M	M
BPHE	BPHE	BPHE	BPHE	BPHE	BPHE	BPHE	BPHE	BPHE	BPHE	BPHE
400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50
61	70.4	71.4	81.2	81.2	88.5	88.5	98.5	106.9	108.9	124.5
110	125.4	125.6	145	141.8	157	160.4	176.4	188.4	196.2	219.8
180.8	198.8	210.8	218.8	228.8	254.2	264.2	282.2	316.2	310.2	344.2
378	439.3	428.7	715.8	492.6	525.3	551.4	603.4	916.7	667.7	767.7
2410	2410	2410	2410	2410	3460	3460	3460	3460	3460	3460
2250	2250	2250	2250	2250	2250	2250	2250	2250	2250	2250
2560	2560	2560	2560	2560	2560	2560	2560	2560	2560	2560
1820	1930	1820	2090	1930	2500	2410	2520	2560	2530	2570
1834	1944	1834	2104	1944	2520	2430	2540	2580	2550	2590

VHA with AC fans

R410A

Air cooled chiller with scroll or reciprocating compressors and axial fans for outdoor installation

Energymiser		VHA 2900A AC-01	VHA 2970A AC-01	VHA 2114A AC-01	VHA 2145A AC-01	VHA 3420A AC-01	VHA 3480A AC-01
CHILLER PERFORMANCE							
Refrigerant		R410A	R410A	R410A	R410A	R410A	R410A
Total cooling capacity	kW	381.66	398.64	450.8	581.26	271.62	303.09
Nominal power input	kW	135.6	136.6	164.6	208.7	91.5	107.7
E.E.R.	Coef.	2.81	2.92	2.74	2.79	2.97	2.81
Energy class		C	B	C	C	B	C
E.S.E.E.R.	Coef.	3.93	4.24	3.79	4.15	4.33	3.95
Noise Pressure Level	dB(A)	62	64	63	68	62	62
Distance	m	10	10	10	10	10	10
WORKING CONDITIONS							
Compressors type	Type	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll
Compressors number	n°	6	4	6	6	6	6
Inlet water temperature	°C	12	12	12	12	12	12
Outlet water temperature	°C	6	6	6	6	6	6
Ambient temperature	°C	35	35	35	35	35	35
Condenser coil type (*1)	Type	M	M	M	M	M	M
Evaporator type (*2)	Type	BPHE	BPHE	S&T	S&T	S&T	S&T
Power circuit voltage	V/Ph/Hz	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
Control circuit voltage	V/Ph/Hz	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50
Total power input	kW	135.6	136.6	164.6	208.7	91.5	107.7
Total running current	A	238.2	241.4	294.6	365	165	190.5
Total max current	A	377.6	385.6	461.6	571	271.2	298.2
Total starting current	A	1150.7	821.2	1452.1	1800.5	819.6	963.1
DIMENSIONS							
Length with cabinet	mm	4510	4510	4510	5560	3460	3460
Width	mm	2250	2250	2250	2250	2250	2250
Height	mm	2560	2560	2560	2560	2560	2560
Shipping weight	kg	3310	3040	3690	4290	2770	2920
Operating weight	kg	3330	3060	3823	4403	2864	3014
(*1) M: Microchannels (*2) S&T or BPHE: Shell and Tube - Brazen Plate Heat Exchanger							

VHA with AC fans

Air cooled chiller with scroll or reciprocating compressors and axial fans for outdoor installation

VHA 3482A AC-01	VHA 3550A AC-01	VHA 3540A AC-01	VHA 3600A AC-01	VHA 3620A AC-01	VHA 3680A AC-01	VHA 3720A AC-01	VHA 3900A AC-01	VHA 3970A AC-01	VHA 3114A AC-01	VHA 3145A AC-01
R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
303.42	331.71	337.47	370.2	369.21	400.74	427.77	580.92	597.96	676.2	896.94
107.1	121.8	121.8	137.1	137.7	153.6	168.3	199.8	204.9	246.9	307.5
2.83	2.72	2.77	2.7	2.68	2.61	2.54	2.91	2.92	2.74	2.92
C	C	C	C	D	D	D	B	B	C	B
4.22	3.82	4.27	3.94	4.15	3.97	3.87	4.29	4.06	4.07	4.06
62	62	62	62	62	62	63	64	65	65	70
10	10	10	10	10	10	10	10	10	10	10
Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll
6	9	6	6	6	6	9	9	6	9	9
12	12	12	12	12	12	12	12	12	12	12
6	6	6	6	6	6	6	6	6	6	6
35	35	35	35	35	35	35	35	35	35	35
M	M	M	M	M	M	M	M	M	M	M
S&T	S&T	S&T	S&T	S&T	S&T	S&T	S&T	S&T	S&T	S&T
400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50
107.1	121.8	121.8	137.1	137.7	153.6	168.3	199.8	204.9	246.9	307.5
188.4	217.5	212.7	237.3	242.7	268.2	288.6	352.5	362.1	441.9	543.3
316.2	328.2	343.2	370.2	385.2	412.2	463.2	566.4	578.4	692.4	867.6
944.4	1646.9	1081.5	1212.7	1251.5	1387.5	2236.5	2606.6	1807.6	3348.3	4032
3460	3460	3460	3460	3460	3460	3460	6610	6610	6610	9760
2250	2250	2250	2250	2250	2250	2250	2250	2250	2250	2250
2560	2560	2560	2560	2560	2560	2560	2560	2560	2560	2560
2770	3180	2940	3090	2960	3130	3200	5110	4700	5390	6910
2864	3267	3027	3177	3047	3210	3280	5234	4824	5611	7116

VHA with AC fans

Air cooled chiller with scroll or reciprocating compressors and axial fans for outdoor installation

Energymiser		VHA 4720A AC-01	VHA 4900A AC-01	VHA 4114A AC-01	VHA 4145A AC-01		
CHILLER PERFORMANCE							
Refrigerant		R410A	R410A	R410A	R410A		
Total cooling capacity	kW	606.84	774.56	901.6	1195.92		
Nominal power input	kW	213.8	266.4	329.2	410		
E.E.R.	Coef.	2.84	2.91	2.74	2.92		
Energy class		C	B	C	B		
E.S.E.E.R.	Coef.	4.09	4.29	4.09	4.18		
Noise Pressure Level	dB(A)	65	65	66	71		
Distance	m	10	10	10	10		
WORKING CONDITIONS							
Compressors type	Type	Scroll	Scroll	Scroll	Scroll		
Compressors number	n°	12	12	12	12		
Inlet water temperature	°C	12	12	12	12		
Outlet water temperature	°C	6	6	6	6		
Ambient temperature	°C	35	35	35	35		
Condenser coil type (*1)	Type	M	M	M	M		
Evaporator type (*2)	Type	S&T	S&T	S&T	S&T		
Power circuit voltage	V/Ph/Hz	400/3/50	400/3/50	400/3/50	400/3/50		
Control circuit voltage	V/Ph/Hz	230/1/50	230/1/50	230/1/50	230/1/50		
Total power input	kW	213.8	266.4	329.2	410		
Total running current	A	376.8	470	589.2	724.4		
Total max current	A	632.4	755.2	923.2	1156.8		
Total starting current	A	3801.8	4702.4	6048.4	7273.7		
DIMENSIONS							
Length with cabinet	mm	6610	8710	8710	12910		
Width	mm	2250	2250	2250	2250		
Height	mm	2560	2560	2560	2560		
Shipping weight	kg	5080	6770	6950	9190		
Operating weight	kg	5193	6991	7134	9510		
(*1) M: Microchannels (*2) S&T or BPHE: Shell and Tube - Brazen Plate Heat Exchanger							

VHA with EC fans

R410A

Air cooled chiller with scroll or reciprocating compressors and axial fans for outdoor installation

VHA 1090C EC-01	VHA 1105C EC-01	VHA 1120C EC-01	VHA 1140C EC-01	VHA 1161C EC-01	VHA 1184C EC-01	VHA 1182C EC-01	VHA 1195C EC-01	VHA 1210C EC-01	VHA 1212C EC-01	VHA 1230C EC-01
R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
19.61	22.88	25.99	30.24	32.85	36.69	36.43	39.56	45.32	45.76	48.75
6.89	8.19	8.89	10.29	11.49	13.39	13.99	15.49	15.88	16.48	17.38
2.85	2.79	2.92	2.94	2.86	2.74	2.6	2.55	2.85	2.78	2.8
C	C	B	B	C	C	D	D	C	C	C
4.05	3.98	3.83	3.95	3.97	3.75	3.5	3.6	3.83	4.02	3.98
48	48	48	48	49	49	49	50	51	51	51
10	10	10	10	10	10	10	10	10	10	10
Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll
1	1	1	1	1	1	2	2	2	2	2
12	12	12	12	12	12	12	12	12	12	12
6	6	6	6	6	6	6	6	6	6	6
35	35	35	35	35	35	35	35	35	35	35
M	M	M	M	M	M	M	M	M	M	M
BPHE	BPHE	BPHE	BPHE	BPHE	BPHE	BPHE	BPHE	BPHE	BPHE	BPHE
400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50
6.89	8.19	8.89	10.29	11.49	13.39	13.99	15.49	15.88	16.48	17.38
12.9	15.9	16.6	18.8	20.2	24.5	25.7	28.8	29.7	31.9	32
20.6	23.6	25.6	29.6	32.6	37.6	39.6	42.6	46.2	47.2	50.2
99.6	143.6	143.6	148.6	159.6	198.6	74.7	99.8	100.7	102.9	105.5
1440	1440	2560	2560	2560	2560	2560	2560	2560	2560	2560
900	900	1050	1050	1050	1050	1050	1050	1050	1050	1050
2130	2130	2500	2500	2500	2500	2500	2500	2500	2500	2500
740	740	820	830	830	830	890	890	940	950	940
746	746	826	836	836	836	896	896	946	956	946

VHA with EC fans

R410A

Air cooled chiller with scroll or reciprocating compressors and axial fans for outdoor installation

Energymiser		VHA 1242C EC-01	VHA 1240A EC-01	VHA 1260C EC-01	VHA 1281C EC-01	VHA 1282C EC-01	VHA 1301C EC-01
CHILLER PERFORMANCE							
Refrigerant		R410A	R410A	R410A	R410A	R410A	R410A
Total cooling capacity	kW	51.24	50.57	54.52	57.21	57.71	63.03
Nominal power input	kW	18.08	17.85	19.68	21.18	21.28	21.58
E.E.R.	Coef.	2.83	2.83	2.77	2.7	2.71	2.92
Energy class		C	C	C	C	C	B
E.S.E.E.R.	Coef.	3.94	3.99	3.68	3.66	3.79	4.02
Noise Pressure Level	dB(A)	51	54	51	52	51	52
Distance	m	10	10	10	10	10	10
WORKING CONDITIONS							
Compressors type	Type	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll
Compressors number	n°	2	1	2	2	2	2
Inlet water temperature	°C	12	12	12	12	12	12
Outlet water temperature	°C	6	6	6	6	6	6
Ambient temperature	°C	35	35	35	35	35	35
Condenser coil type (*1)	Type	M	M	M	M	M	M
Evaporator type (*2)	Type	BPHE	BPHE	BPHE	BPHE	BPHE	BPHE
Power circuit voltage	V/Ph/Hz	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
Control circuit voltage	V/Ph/Hz	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50
Total power input	kW	18.08	17.85	19.68	21.18	21.28	21.58
Total running current	A	33.6	30.5	36.1	37.7	38.6	38.7
Total max current	A	51.2	51.8	55.2	58.2	59.2	62.2
Total starting current	A	104.6	217.8	109.6	116.7	112.1	117.7
DIMENSIONS							
Length with cabinet	mm	2560	2560	2560	2560	2560	2560
Width	mm	1050	1050	1050	1050	1050	1050
Height	mm	2500	2560	2500	2500	2500	2500
Shipping weight	kg	950	880	950	960	960	970
Operating weight	kg	956	886	956	968	968	978
(*1) M: Microchannels (*2) S&T or BPHE: Shell and Tube - Brazed Plate Heat Exchanger							

VHA with EC fans

Air cooled chiller with scroll or reciprocating compressors and axial fans for outdoor installation

VHA 1304C EC-01	VHA 1322C EC-01	VHA 1324C EC-01	VHA 1300A EC-01	VHA 1345A EC-01	VHA 1360A EC-01	VHA 1368A EC-01	VHA 1380A EC-01	VHA 1420A EC-01	VHA 1485A EC-01	VHA 1480A EC-01
R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
63.03	64.7	66.1	63.61	69.59	72.58	73.37	74	82.67	89.66	101.03
22.18	23.48	23.78	22.05	24.65	27.05	26.55	27.35	32.45	36.85	35.9
2.84	2.76	2.78	2.88	2.82	2.68	2.76	2.71	2.55	2.43	2.81
C	C	C	C	C	D	C	C	D	E	C
3.92	4.08	3.82	3.73	4	3.74	3.98	3.95	3.8	3.6	3.93
52	52	52	54	51	55	52	55	56	60	57
10	10	10	10	10	10	10	10	10	10	10
Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll
2	2	2	1	2	2	2	1	2	1	2
12	12	12	12	12	12	12	12	12	12	12
6	6	6	6	6	6	6	6	6	6	6
35	35	35	35	35	35	35	35	35	35	35
M	M	M	M	M	M	M	M	M	M	M
BPHE	BPHE	BPHE	BPHE	BPHE	BPHE	BPHE	BPHE	BPHE	BPHE	BPHE
400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50
22.18	23.48	23.78	22.05	24.65	27.05	26.55	27.35	32.45	36.85	35.9
40.9	40.9	43.5	37.6	44.2	46.9	48.5	47.6	55.2	62.1	61.7
63.2	65.2	67.2	60.8	69.8	70.8	74.8	74.8	85.8	91.8	97.6
139.4	119.9	142	262.8	142.7	131.9	147	322.8	162.7	415.8	191.7
2560	2560	2560	2560	2560	2560	2560	2560	2560	2560	2560
1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050
2500	2500	2500	2560	2560	2560	2560	2560	2560	2560	2560
970	970	970	950	930	1030	930	960	1040	980	1130
978	978	978	958	938	1038	938	969	1049	989	1139

VHA with EC fans

Air cooled chiller with scroll or reciprocating compressors and axial fans for outdoor installation

Energymiser		VHA 1482A EC-01	VHA 1550A EC-01	VHA 1540A EC-01	VHA 1600A EC-01	VHA 1620A EC-01	VHA 1680A EC-01
CHILLER PERFORMANCE							
Refrigerant		R410A	R410A	R410A	R410A	R410A	R410A
Total cooling capacity	kW	101.14	110.57	112.49	127.22	126.82	137.79
Nominal power input	kW	35.7	40.6	40.6	44	44.2	49.3
E.E.R.	Coef.	2.83	2.72	2.77	2.89	2.87	2.79
Energy class		C	C	C	C	C	C
E.S.E.E.R.	Coef.	3.74	3.76	3.68	3.85	4.03	3.87
Noise Pressure Level	dB(A)	57	57	57	58	58	58
Distance	m	10	10	10	10	10	10
WORKING CONDITIONS							
Compressors type	Type	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll
Compressors number	n°	2	3	2	2	2	2
Inlet water temperature	°C	12	12	12	12	12	12
Outlet water temperature	°C	6	6	6	6	6	6
Ambient temperature	°C	35	35	35	35	35	35
Condenser coil type (*1)	Type	M	M	M	M	M	M
Evaporator type (*2)	Type	BPHE	BPHE	BPHE	BPHE	BPHE	BPHE
Power circuit voltage	V/Ph/Hz	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
Control circuit voltage	V/Ph/Hz	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50
Total power input	kW	35.7	40.6	40.6	44	44.2	49.3
Total running current	A	61	70.7	69.1	75.1	76.8	85.1
Total max current	A	103.6	107.6	112.6	121.6	126.6	135.6
Total starting current	A	168.5	192.5	199.1	205.1	236.8	245.1
DIMENSIONS							
Length with cabinet	mm	2560	2560	2560	2410	2410	2410
Width	mm	1050	1050	1050	2250	2250	2250
Height	mm	2560	2560	2560	2560	2560	2560
Shipping weight	kg	1080	1210	1130	1550	1510	1560
Operating weight	kg	1089	1219	1139	1563	1523	1573
(*1) M: Microchannels (*2) S&T or BPHE: Shell and Tube - Brazed Plate Heat Exchanger							

VHA with EC fans

R410A

Air cooled chiller with scroll or reciprocating compressors and axial fans for outdoor installation

VHA 1720A EC-01	VHA 1760A EC-01	VHA 1865A EC-01	VHA 1970A EC-01	VHA 1900A EC-01	VHA 1114A EC-01	VHA 1145A EC-01	VHA 2182A EC-01	VHA 2195A EC-01	VHA 2210A EC-01	VHA 2212A EC-01
R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
147.21	148	164.29	199.32	193.64	225.4	298.98	72.86	79.12	90.64	92.72
53.8	54.7	64	68.3	66.6	82.3	102.5	27.75	30.75	31.3	31.9
2.74	2.71	2.57	2.92	2.91	2.74	2.92	2.63	2.57	2.9	2.91
C	C	D	B	B	C	B	D	D	C	B
3.8	3.74	3.5	4.04	4.23	3.79	4.08	3.91	3.67	4.14	3.9
58	58	60	61	59	60	65	51	52	54	54
10	10	10	10	10	10	10	10	10	10	10
Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll
3	2	2	2	3	3	3	4	4	4	4
12	12	12	12	12	12	12	12	12	12	12
6	6	6	6	6	6	6	6	6	6	6
35	35	35	35	35	35	35	35	35	35	35
M	M	M	M	M	M	M	M	M	M	M
BPHE	BPHE	BPHE	BPHE	BPHE	BPHE	BPHE	BPHE	BPHE	BPHE	BPHE
400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50
53.8	54.7	64	68.3	66.6	82.3	102.5	27.75	30.75	31.3	31.9
91.5	95.2	109.2	117.1	113.9	143.7	175.7	51	57.2	58.6	62.2
152.6	149.6	166.6	189.2	185.2	227.2	283.8	78.8	84.8	91.6	93.6
249.1	255.2	315.7	323.6	303.3	382.9	472.3	184	215.1	213.4	225.1
2410	2410	2410	2410	2410	2410	3460	2560	2560	2560	2560
2250	2250	2250	2250	2250	2250	2250	1050	1050	1050	1050
2560	2560	2560	2560	2560	2560	2560	2560	2560	2560	2560
1580	1570	1580	1700	1840	1860	2370	1060	1080	1120	1130
1593	1583	1593	1713	1855	1875	2387	1071	1091	1131	1141

VHA with EC fans

R410A

Air cooled chiller with scroll or reciprocating compressors and axial fans for outdoor installation

Energymiser		VHA 2230A EC-01	VHA 2242A EC-01	VHA 2260A EC-01	VHA 2281A EC-01	VHA 2282A EC-01	VHA 2301A EC-01
CHILLER PERFORMANCE							
Refrigerant		R410A	R410A	R410A	R410A	R410A	R410A
Total cooling capacity	kW	97.5	100.98	107.44	114.42	113.72	124.26
Nominal power input	kW	34.3	36.3	39.5	41.9	42.9	43.5
E.E.R.	Coef.	2.84	2.78	2.72	2.73	2.65	2.86
Energy class		C	C	C	C	D	C
E.S.E.E.R.	Coef.	4.17	4.09	3.71	3.94	3.6	3.92
Noise Pressure Level	dB(A)	54	54	54	54	54	54
Distance	m	10	10	10	10	10	10
WORKING CONDITIONS							
Compressors type	Type	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll
Compressors number	n°	4	4	4	4	4	4
Inlet water temperature	°C	12	12	12	12	12	12
Outlet water temperature	°C	6	6	6	6	6	6
Ambient temperature	°C	35	35	35	35	35	35
Condenser coil type (*1)	Type	M	M	M	M	M	M
Evaporator type (*2)	Type	BPHE	BPHE	BPHE	BPHE	BPHE	BPHE
Power circuit voltage	V/Ph/Hz	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
Control circuit voltage	V/Ph/Hz	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50
Total power input	kW	34.3	36.3	39.5	41.9	42.9	43.5
Total running current	A	63.2	67.2	72.2	74.6	77.4	77.6
Total max current	A	99.6	101.6	109.6	115.6	117.6	123.6
Total starting current	A	229.6	241.3	258.8	269.4	275.7	279.1
DIMENSIONS							
Length with cabinet	mm	2560	2560	2560	2560	2560	2410
Width	mm	1050	1050	1050	1050	1050	2250
Height	mm	2560	2560	2560	2560	2560	2560
Shipping weight	kg	1130	1130	1140	1140	1140	1500
Operating weight	kg	1141	1141	1151	1151	1151	1511
(*1) M: Microchannels (*2) S&T or BPHE: Shell and Tube - Brazed Plate Heat Exchanger							

VHA with EC fans

Air cooled chiller with scroll or reciprocating compressors and axial fans for outdoor installation

VHA 2304A EC-01	VHA 2322A EC-01	VHA 2324A EC-01	VHA 2345A EC-01	VHA 2360A EC-01	VHA 2368A EC-01	VHA 2420A EC-01	VHA 2480A EC-01	VHA 2482A EC-01	VHA 2550A EC-01	VHA 2540A EC-01
R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
126.06	131.4	134.14	139.18	145.16	157.56	181.08	205.02	202.28	221.14	224.98
43.9	45.7	46.3	49.3	54.1	52.2	61	70.4	71.4	81.2	81.2
2.87	2.88	2.9	2.82	2.68	3.02	2.97	2.91	2.83	2.72	2.77
C	C	C	C	D	B	B	B	C	C	C
3.86	3.84	4.15	3.79	3.68	4.14	4.13	4.03	4.16	3.83	3.79
54	54	54	54	58	57	60	60	60	60	60
10	10	10	10	10	10	10	10	10	10	10
Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll
4	4	4	4	4	4	4	4	4	6	4
12	12	12	12	12	12	12	12	12	12	12
6	6	6	6	6	6	6	6	6	6	6
35	35	35	35	35	35	35	35	35	35	35
M	M	M	M	M	M	M	M	M	M	M
BPHE	BPHE	BPHE	BPHE	BPHE	BPHE	BPHE	BPHE	BPHE	BPHE	BPHE
400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50
43.9	45.7	46.3	49.3	54.1	52.2	61	70.4	71.4	81.2	81.2
81	79.8	85	88.4	93.8	97.2	106.4	121.8	122	141.4	138.2
125.6	129.6	133.6	139.6	141.6	155.2	177.2	195.2	207.2	215.2	225.2
299.9	286.3	312.9	324	334.8	340	374.4	435.7	425.1	712.2	489
2410	2410	2410	2410	2410	2410	2410	2410	2410	2410	2410
2250	2250	2250	2250	2250	2250	2250	2250	2250	2250	2250
2560	2560	2560	2560	2560	2560	2560	2560	2560	2560	2560
1500	1500	1500	1510	1710	1610	1820	1930	1820	2090	1930
1511	1511	1511	1521	1721	1621	1834	1944	1834	2104	1944

VHA with EC fans

Air cooled chiller with scroll or reciprocating compressors and axial fans for outdoor installation

Energymiser		VHA 2600A EC-01	VHA 2620A EC-01	VHA 2680A EC-01	VHA 2720A EC-01	VHA 2760A EC-01	VHA 2865A EC-01
CHILLER PERFORMANCE							
Refrigerant		R410A	R410A	R410A	R410A	R410A	R410A
Total cooling capacity	kW	261.9	260.96	283.8	303.42	305	344.02
Nominal power input	kW	88.5	88.5	98.5	106.9	108.9	124.5
E.E.R.	Coef.	2.96	2.95	2.88	2.84	2.8	2.76
Energy class		B	B	C	C	C	C
E.S.E.E.R.	Coef.	4.13	4.36	4.18	3.96	3.79	3.72
Noise Pressure Level	dB(A)	61	61	61	62	62	63
Distance	m	10	10	10	10	10	10
WORKING CONDITIONS							
Compressors type	Type	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll
Compressors number	n°	4	4	4	6	4	4
Inlet water temperature	°C	12	12	12	12	12	12
Outlet water temperature	°C	6	6	6	6	6	6
Ambient temperature	°C	35	35	35	35	35	35
Condenser coil type (*1)	Type	M	M	M	M	M	M
Evaporator type (*2)	Type	BPHE	BPHE	BPHE	BPHE	BPHE	BPHE
Power circuit voltage	V/Ph/Hz	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
Control circuit voltage	V/Ph/Hz	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50
Total power input	kW	88.5	88.5	98.5	106.9	108.9	124.5
Total running current	A	151.6	155	171	183	190.8	214.4
Total max current	A	248.8	258.8	276.8	310.8	304.8	338.8
Total starting current	A	519.9	546	598	911.3	662.3	762.3
DIMENSIONS							
Length with cabinet	mm	3460	3460	3460	3460	3460	3460
Width	mm	2250	2250	2250	2250	2250	2250
Height	mm	2560	2560	2560	2560	2560	2560
Shipping weight	kg	2500	2410	2520	2560	2530	2570
Operating weight	kg	2520	2430	2540	2580	2550	2590
(*1) M: Microchannels (*2) S&T or BPHE: Shell and Tube - Brazed Plate Heat Exchanger							

VHA with EC fans

R410A

Air cooled chiller with scroll or reciprocating compressors and axial fans for outdoor installation

VHA 2900A EC-01	VHA 2970A EC-01	VHA 2114A EC-01	VHA 2145A EC-01	VHA 3420A EC-01	VHA 3480A EC-01	VHA 3482A EC-01	VHA 3550A EC-01	VHA 3540A EC-01	VHA 3600A EC-01	VHA 3620A EC-01
R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
381.66	398.64	450.8	581.26	271.62	303.09	303.42	331.71	337.47	370.2	369.21
135.6	136.6	164.6	208.7	91.5	107.7	107.1	121.8	121.8	137.1	137.7
2.81	2.92	2.74	2.79	2.97	2.81	2.83	2.72	2.77	2.7	2.68
C	B	C	C	B	C	C	C	C	C	D
4.26	4.19	3.88	4.03	4.27	4.03	4.26	4.21	4.25	4.02	4
62	64	63	68	62	62	62	62	62	62	62
10	10	10	10	10	10	10	10	10	10	10
Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll
6	4	6	6	6	6	6	9	6	6	6
12	12	12	12	12	12	12	12	12	12	12
6	6	6	6	6	6	6	6	6	6	6
35	35	35	35	35	35	35	35	35	35	35
M	M	M	M	M	M	M	M	M	M	M
BPHE	BPHE	S&T	S&T	S&T	S&T	S&T	S&T	S&T	S&T	S&T
400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50
135.6	136.6	164.6	208.7	91.5	107.7	107.1	121.8	121.8	137.1	137.7
231	234.2	287.4	356	159.6	185.1	183	212.1	207.3	231.9	237.3
370.4	378.4	454.4	562	265.8	292.8	310.8	322.8	337.8	364.8	379.8
1143.5	814	1444.9	1791.5	814.2	957.7	939	1641.5	1076.1	1207.3	1246.1
4510	4510	4510	5560	3460	3460	3460	3460	3460	3460	3460
2250	2250	2250	2250	2250	2250	2250	2250	2250	2250	2250
2560	2560	2560	2560	2560	2560	2560	2560	2560	2560	2560
3310	3040	3690	4290	2770	2920	2770	3180	2940	3090	2960
3330	3060	3823	4403	2864	3014	2864	3267	3027	3177	3047

VHA with EC fans

R410A

Air cooled chiller with scroll or reciprocating compressors and axial fans for outdoor installation

Energymiser		VHA 3680A EC-01	VHA 3720A EC-01	VHA 3900A EC-01	VHA 3970A EC-01	VHA 3114A EC-01	VHA 3145A EC-01
CHILLER PERFORMANCE							
Refrigerant		R410A	R410A	R410A	R410A	R410A	R410A
Total cooling capacity	kW	400.74	427.77	580.92	597.96	676.2	896.94
Nominal power input	kW	153.6	168.3	199.8	204.9	246.9	307.5
E.E.R.	Coef.	2.61	2.54	2.91	2.92	2.74	2.92
Energy class		D	D	B	B	C	B
E.S.E.E.R.	Coef.	3.95	4	4.18	4.15	4.1	4.41
Noise Pressure Level	dB(A)	62	63	64	65	65	70
Distance	m	10	10	10	10	10	10
WORKING CONDITIONS							
Compressors type	Type	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll
Compressors number	n°	6	9	9	6	9	9
Inlet water temperature	°C	12	12	12	12	12	12
Outlet water temperature	°C	6	6	6	6	6	6
Ambient temperature	°C	35	35	35	35	35	35
Condenser coil type (*1)	Type	M	M	M	M	M	M
Evaporator type (*2)	Type	S&T	S&T	S&T	S&T	S&T	S&T
Power circuit voltage	V/Ph/Hz	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
Control circuit voltage	V/Ph/Hz	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50
Total power input	kW	153.6	168.3	199.8	204.9	246.9	307.5
Total running current	A	262.8	283.2	341.7	351.3	431.1	527.1
Total max current	A	406.8	457.8	555.6	567.6	681.6	851.4
Total starting current	A	1382.1	2231.1	2595.8	1796.8	3337.5	4015.8
DIMENSIONS							
Length with cabinet	mm	3460	3460	6610	6610	6610	9760
Width	mm	2250	2250	2250	2250	2250	2250
Height	mm	2560	2560	2560	2560	2560	2560
Shipping weight	kg	3130	3200	5110	4700	5390	6910
Operating weight	kg	3210	3280	5234	4824	5611	7116
(*1) M: Microchannels (*2) S&T or BPHE: Shell and Tube - Brazed Plate Heat Exchanger							

VHA with EC fans

Air cooled chiller with scroll or reciprocating compressors and axial fans for outdoor installation

VHA 4720A EC-01	VHA 4900A EC-01	VHA 4114A EC-01	VHA 4145A EC-01							
R410A	R410A	R410A	R410A							
606.84	774.56	901.6	1195.92							
213.8	266.4	329.2	410							
2.84	2.91	2.74	2.92							
C	B	C	B							
4.15	4.51	4.43	4.14							
65	65	66	71							
10	10	10	10							
Scroll	Scroll	Scroll	Scroll							
12	12	12	12							
12	12	12	12							
6	6	6	6							
35	35	35	35							
M	M	M	M							
S&T	S&T	S&T	S&T							
400/3/50	400/3/50	400/3/50	400/3/50							
230/1/50	230/1/50	230/1/50	230/1/50							
213.8	266.4	329.2	410							
366	455.6	574.8	702.8							
621.6	740.8	908.8	1135.2							
3791	4688	6034	7252.1							
6610	8710	8710	12910							
2250	2250	2250	2250							
2560	2560	2560	2560							
5080	6770	6950	9190							
5193	6991	7134	9510							

VHA with EC fans

Air cooled chiller with scroll or reciprocating compressors and axial fans for outdoor installation

Greenmiser		VHA FIQ7C EC-290	VHA FIS7C EC-290	VHA FIS12C EC-290	VHA FIS15C EC-290	VHA FIS20C EC-290	VHA FIV25C EC-290
CHILLER PERFORMANCE							
Refrigerant		R290	R290	R290	R290	R290	R290
Total cooling capacity	kW	20.48	24.19	29.33	35.01	39.81	51.94
Nominal power input	kW	6.89	7.79	9.69	11.89	13.19	16.58
E.E.R.	Coef.	2.97	3.11	3.03	2.94	3.02	3.13
Energy class		B	A	B	B	B	A
E.S.E.E.R.	Coef.	3.97	4.17	4.01	4.19	4.29	4.1
Noise Pressure Level	dB(A)	48	49	49	49	50	52
Distance	m	10	10	10	10	10	10
WORKING CONDITIONS							
Compressors type	Type	Recip.	Recip.	Recip.	Recip.	Recip.	Recip.
Compressors number	n°	1	1	1	1	1	1
Inlet water temperature	°C	12	12	12	12	12	12
Outlet water temperature	°C	6	6	6	6	6	6
Ambient temperature	°C	35	35	35	35	35	35
Condenser coil type (*1)	Type	M	M	M	M	M	M
Evaporator type (*2)	Type	BPHE	BPHE	BPHE	BPHE	BPHE	BPHE
Power circuit voltage	V/Ph/Hz	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
Control circuit voltage	V/Ph/Hz	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50
Total power input	kW	6.89	7.79	9.69	11.89	13.19	16.58
Total running current	A	12.6	14.3	17.9	21.9	24.5	30.5
Total max current	A	19	20.5	23.2	30.3	37.5	40.1
Total starting current	A	88.9	48.6	60.7	76.4	89.1	121.5
DIMENSIONS							
Length with cabinet	mm	1360	1360	2560	2560	2560	2560
Width	mm	1050	1050	1050	1050	1050	1050
Height	mm	2130	2130	2500	2500	2500	2500
Shipping weight	kg	760	800	880	890	910	1010
Operating weight	kg	766	806	886	896	916	1016
(*1) M: Microchannels (*2) S&T or BPHE: Shell and Tube - Brazed Plate Heat Exchanger							

VHA with EC fans

R290

Air cooled chiller with scroll or reciprocating compressors and axial fans for outdoor installation

VHA F1V30C EC-290	VHA F1V32C EC-290	VHA F1Z35C EC-290	VHA F1Z40A EC-290	VHA F1W40A EC-290	VHA F1Z50A EC-290	VHA F1W50A EC-290	VHA F1W60A EC-290	VHA F1W70A EC-290	VHA F1W75A EC-290	VHA F1W80A EC-290
R290	R290	R290	R290	R290	R290	R290	R290	R290	R290	R290
59.98	62.18	69.99	85.45	92.14	98.75	105.91	119.99	129.57	150.3	158.03
18.78	20.98	23.48	28.6	31.8	34	39.6	43.9	47.8	52.9	55.3
3.19	2.96	2.98	2.99	2.9	2.9	2.67	2.73	2.71	2.84	2.86
A	B	B	B	C	B	D	C	C	C	C
4.03	4.19	3.93	4.15	3.8	4.12	3.97	3.87	3.85	3.85	3.93
54	54	54	55	56	55	57	59	59	61	62
10	10	10	10	10	10	10	10	10	10	10
Recip.	Recip.	Recip.	Recip.	Recip.	Recip.	Recip.	Recip.	Recip.	Recip.	Recip.
1	1	1	1	1	1	1	1	1	1	1
12	12	12	12	12	12	12	12	12	12	12
6	6	6	6	6	6	6	6	6	6	6
35	35	35	35	35	35	35	35	35	35	35
M	M	M	M	M	M	M	M	M	M	M
BPHE	BPHE	BPHE	BPHE	BPHE	BPHE	BPHE	BPHE	BPHE	BPHE	BPHE
400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50
18.78	20.98	23.48	28.6	31.8	34	39.6	43.9	47.8	52.9	55.3
34.7	38.9	43.4	52.6	58.7	62.8	73.3	81.3	88.7	97.3	101.8
47.2	46	57.1	66.6	78.1	80.2	94.9	105.4	108.9	119.1	122.4
135.8	147.7	147.7	164.8	220.6	194.4	263.6	331.6	395.6	428.2	428.2
2560	2560	2560	2560	2560	2560	2560	2410	2410	2410	2410
1050	1050	1050	1050	1050	1050	1050	2250	2250	2250	2250
2500	2500	2500	2560	2560	2560	2560	2560	2560	2560	2560
1010	1020	1060	1080	1140	1080	1150	1510	1530	1620	1620
1016	1026	1066	1086	1146	1086	1156	1516	1538	1628	1628

VHA with EC fans

R290

Air cooled chiller with scroll or reciprocating compressors and axial fans for outdoor installation

Greenmiser		VHA F2Q7C EC-290	VHA F2S7C EC-290	VHA F2S12C EC-290	VHA F2S15C EC-290	VHA F2S20C EC-290	VHA F2V20A EC-290
CHILLER PERFORMANCE							
Refrigerant		R290	R290	R290	R290	R290	R290
Total cooling capacity	kW	40.64	48.38	59.04	70.02	78.4	86.02
Nominal power input	kW	13.78	15.58	19.18	23.78	26.78	28.1
E.E.R.	Coef.	2.95	3.11	3.08	2.94	2.93	3.06
Energy class		B	A	B	B	B	B
E.S.E.E.R.	Coef.	3.97	4.42	4.25	4.22	4.28	4.1
Noise Pressure Level	dB(A)	51	52	52	52	53	55
Distance	m	10	10	10	10	10	10
WORKING CONDITIONS							
Compressors type	Type	Recip.	Recip.	Recip.	Recip.	Recip.	Recip.
Compressors number	n°	2	2	2	2	2	2
Inlet water temperature	°C	12	12	12	12	12	12
Outlet water temperature	°C	6	6	6	6	6	6
Ambient temperature	°C	35	35	35	35	35	35
Condenser coil type (*1)	Type	M	M	M	M	M	M
Evaporator type (*2)	Type	BPHE	BPHE	BPHE	BPHE	BPHE	BPHE
Power circuit voltage	V/Ph/Hz	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
Control circuit voltage	V/Ph/Hz	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50
Total power input	kW	13.78	15.58	19.18	23.78	26.78	28.1
Total running current	A	25.4	28.6	35.6	43.8	49.8	51.8
Total max current	A	38	41	46.4	60.6	75	66
Total starting current	A	80.2	64.8	81.4	101.5	116.9	128.2
DIMENSIONS							
Length with cabinet	mm	2560	2560	2560	2560	2560	2560
Width	mm	1050	1050	1050	1050	1050	1050
Height	mm	2500	2500	2500	2500	2500	2560
Shipping weight	kg	1040	1130	1140	1160	1170	1270
Operating weight	kg	1056	1146	1156	1176	1186	1286
(*1) M: Microchannels (*2) S&T or BPHE: Shell and Tube - Brazed Plate Heat Exchanger							

VHA with EC fans

Air cooled chiller with scroll or reciprocating compressors and axial fans for outdoor installation

VHA F2V30A EC-290	VHA F2V32A EC-290	VHA F2Z35A EC-290	VHA F2Z40A EC-290	VHA F2W40A EC-290	VHA F2Z50A EC-290	VHA F2W50A EC-290	VHA F2W60A EC-290	VHA F2W70A EC-290	VHA F2W75A EC-290	VHA F2W80A EC-290
R290	R290	R290	R290	R290	R290	R290	R290	R290	R290	R290
116.16	121.24	139.24	170.9	184.28	198.58	211.82	243.78	264.52	293.98	308.12
38.5	42.9	46.7	57.2	63.6	67.6	79.2	89.1	96.7	104.9	109.9
3.02	2.83	2.98	2.99	2.9	2.94	2.67	2.74	2.74	2.8	2.8
B	C	B	B	C	B	D	C	C	C	C
4.23	4.07	4.05	4.02	3.91	4.22	3.83	4.17	3.81	4.19	4.23
56	56	56	58	59	58	60	63	63	64	65
10	10	10	10	10	10	10	10	10	10	10
Recip.	Recip.	Recip.	Recip.	Recip.	Recip.	Recip.	Recip.	Recip.	Recip.	Recip.
2	2	2	2	2	2	2	2	2	2	2
12	12	12	12	12	12	12	12	12	12	12
6	6	6	6	6	6	6	6	6	6	6
35	35	35	35	35	35	35	35	35	35	35
M	M	M	M	M	M	M	M	M	M	M
BPHE	BPHE	BPHE	BPHE	BPHE	BPHE	BPHE	BPHE	BPHE	BPHE	BPHE
400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50
38.5	42.9	46.7	57.2	63.6	67.6	79.2	89.1	96.7	104.9	109.9
71	79.6	86.6	105.2	117.4	124.8	146.6	164.2	178.2	193.6	203
93.6	91.2	113.4	133.2	156.2	160.4	189.8	216.4	223.4	232.6	239.2
170	188.9	199.4	231.8	278	276	343.3	400.9	453.9	490.5	504.6
2560	2560	2410	2410	2410	2410	2410	3460	3460	3460	3460
1050	1050	2250	2250	2250	2250	2250	2250	2250	2250	2250
2560	2560	2560	2560	2560	2560	2560	2560	2560	2560	2560
1300	1310	1740	1870	2000	1880	2020	2480	2510	2550	2550
1316	1326	1758	1888	2018	1898	2038	2498	2528	2577	2577

VHA with EC fans

Air cooled chiller with scroll or reciprocating compressors and axial fans for outdoor installation

Greenmiser		VHA F4V20A EC-290	VHA F4V30A EC-290	VHA F4V32A EC-290	VHA F4Z35A EC-290	VHA F4Z40A EC-290	VHA F4W40A EC-290
CHILLER PERFORMANCE							
Refrigerant		R290	R290	R290	R290	R290	R290
Total cooling capacity	kW	172.04	232.32	247.48	278.48	341.8	368.56
Nominal power input	kW	56.2	77	83.8	93.4	114.4	127.2
E.E.R.	Coef.	3.06	3.02	2.95	2.98	2.99	2.9
Energy class		B	B	B	B	B	C
E.S.E.E.R.	Coef.	4.37	4.24	4.59	4.3	4.63	4.4
Noise Pressure Level	dB(A)	58	59	59	59	61	62
Distance	m	10	10	10	10	10	10
WORKING CONDITIONS							
Compressors type	Type	Recip.	Recip.	Recip.	Recip.	Recip.	Recip.
Compressors number	n°	4	4	4	4	4	4
Inlet water temperature	°C	12	12	12	12	12	12
Outlet water temperature	°C	6	6	6	6	6	6
Ambient temperature	°C	35	35	35	35	35	35
Condenser coil type (*1)	Type	M	M	M	M	M	M
Evaporator type (*2)	Type	BPHE	BPHE	BPHE	BPHE	BPHE	BPHE
Power circuit voltage	V/Ph/Hz	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
Control circuit voltage	V/Ph/Hz	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50
Total power input	kW	56.2	77	83.8	93.4	114.4	127.2
Total running current	A	103.6	142	155.2	173.2	210.4	234.8
Total max current	A	132	187.2	182.4	226.8	266.4	312.4
Total starting current	A	384.4	534.9	587.3	654.8	767.2	872.7
DIMENSIONS							
Length with cabinet	mm	2410	2410	4510	4510	4510	4510
Width	mm	2250	2250	2250	2250	2250	2250
Height	mm	2560	2560	2560	2560	2560	2560
Shipping weight	kg	2160	2220	2930	3080	3340	3590
Operating weight	kg	2183	2243	2953	3103	3363	3613
(*1) M: Microchannels (*2) S&T or BPHE: Shell and Tube - Brazed Plate Heat Exchanger							

VHA with EC fans

R290

Air cooled chiller with scroll or reciprocating compressors and axial fans for outdoor installation

VHA F4Z50A EC-290	VHA F4W50A EC-290	VHA F4W60A EC-290	VHA F4W70A EC-290	VHA F4W75A EC-290	VHA F4W80A EC-290					
R290	R290	R290	R290	R290	R290					
397.16	423.64	489.52	529.04	585.32	616.24					
135.2	158.4	177	193.4	210.6	219.8					
2.94	2.67	2.77	2.74	2.78	2.8					
B	D	C	C	C	C					
4.14	4.1	4.4	3.95	4.34	4.14					
61	63	66	66	67	68					
10	10	10	10	10	10					
Recip.	Recip.	Recip.	Recip.	Recip.	Recip.					
4	4	4	4	4	4					
12	12	12	12	12	12					
6	6	6	6	6	6					
35	35	35	35	35	35					
M	M	M	M	M	M					
BPHE	BPHE	BPHE	BPHE	BPHE	BPHE					
400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50					
230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50					
135.2	158.4	177	193.4	210.6	219.8					
249.6	293.2	326.4	356.4	388.8	406					
320.8	379.6	432.8	446.8	465.2	478.4					
921.6	1102.4	1213.1	1341.6	1469.9	1534.4					
4510	4510	6610	6610	6610	6610					
2250	2250	2250	2250	2250	2250					
2560	2560	2560	2560	2560	2560					
3360	3640	4560	4620	4620	4620					
3383	3663	4583	4643	4643	4643					

VHA with EC fans



Air cooled chiller with scroll or reciprocating compressors and axial fans for outdoor installation

Greenmiser		VHA F1S10C EC-ZE	VHA F1S12C EC-ZE	VHA F1V15C EC-ZE	VHA F1V20C EC-ZE	VHA F1V25C EC-ZE	VHA F1Z30C EC-ZE
CHILLER PERFORMANCE							
Refrigerant		HFO1234ZE	HFO1234ZE	HFO1234ZE	HFO1234ZE	HFO1234ZE	HFO1234ZE
Total cooling capacity	kW	20.96	23.16	28.8	31.96	39.97	49.22
Nominal power input	kW	6.89	8.29	9.39	10.79	12.99	15.48
E.E.R.	Coef.	3.04	2.79	3.07	2.96	3.08	3.18
Energy class		B	C	B	B	B	A
E.S.E.E.R.	Coef.	3.89	3.74	4.3	4.28	4.39	4.47
Noise Pressure Level	dB(A)	49	50	50	52	53	54
Distance	m	10	10	10	10	10	10
WORKING CONDITIONS							
Compressors type	Type	Recip.	Recip.	Recip.	Recip.	Recip.	Recip.
Compressors number	n°	1	1	1	1	1	1
Inlet water temperature	°C	12	12	12	12	12	12
Outlet water temperature	°C	6	6	6	6	6	6
Ambient temperature	°C	35	35	35	35	35	35
Condenser coil type (*1)	Type	M	M	M	M	M	M
Evaporator type (*2)	Type	BPHE	BPHE	BPHE	BPHE	BPHE	BPHE
Power circuit voltage	V/Ph/Hz	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
Control circuit voltage	V/Ph/Hz	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50
Total power input	kW	6.89	8.29	9.39	10.79	12.99	15.48
Total running current	A	12.6	15.2	17.4	19.9	24	28.4
Total max current	A	16.3	17.7	21.8	28.8	31.5	37
Total starting current	A	61.1	61.1	61.1	91.5	124.3	125.9
DIMENSIONS							
Length with cabinet	mm	1360	1360	2560	2560	2560	2560
Width	mm	1050	1050	1050	1050	1050	1050
Height	mm	2130	2130	2500	2500	2500	2500
Shipping weight	kg	810	820	950	960	990	1070
Operating weight	kg	816	826	956	966	996	1076
(*1) M: Microchannels (*2) S&T or BPHE: Shell and Tube - Brazed Plate Heat Exchanger							

Air cooled chiller with scroll or reciprocating compressors and axial fans for outdoor installation

VHA F1Z40C EC-ZE	VHA F2S10C EC-ZE	VHA F2S12C EC-ZE	VHA F2V15C EC-ZE	VHA F2V20C EC-ZE	VHA F2V25C EC-ZE	VHA F2Z30A EC-ZE	VHA F2Z40A EC-ZE	VHA F4S10A EC-ZE	VHA F4S12A EC-ZE	VHA F4V15A EC-ZE
HF01234ZE	HF01234ZE	HF01234ZE	HF01234ZE	HF01234ZE	HF01234ZE	HF01234ZE	HF01234ZE	HF01234ZE	HF01234ZE	HF01234ZE
58.39	41.66	46.32	57.98	63.92	78.7	95.22	110.7	83.84	93.24	113.6
18.78	13.78	16.58	18.78	21.58	26.18	31.3	38.5	27.1	32.3	37.5
3.11	3.02	2.79	3.09	2.96	3.01	3.04	2.88	3.09	2.89	3.03
A	B	C	B	B	B	B	C	B	C	B
4.04	3.98	3.88	4.28	4.33	4.44	4.2	4.32	4.43	4.26	4.35
55	52	53	53	55	56	57	58	55	56	56
10	10	10	10	10	10	10	10	10	10	10
Recip.	Recip.	Recip.	Recip.	Recip.	Recip.	Recip.	Recip.	Recip.	Recip.	Recip.
1	2	2	2	2	2	2	2	4	4	4
12	12	12	12	12	12	12	12	12	12	12
6	6	6	6	6	6	6	6	6	6	6
35	35	35	35	35	35	35	35	35	35	35
M	M	M	M	M	M	M	M	M	M	M
BPHE	BPHE	BPHE	BPHE	BPHE	BPHE	BPHE	BPHE	BPHE	BPHE	BPHE
400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50
18.78	13.78	16.58	18.78	21.58	26.18	31.3	38.5	27.1	32.3	37.5
34.8	25.4	30.4	34.6	39.8	48.4	57.6	71.2	49.6	60	69.6
44.3	32.6	35.4	43.6	57.6	63	73.2	87.8	64.4	70	86.4
147.7	66.3	73.8	80.1	103.1	132.4	145	176.3	185.5	224.5	260.5
2560	2560	2560	2560	2560	2560	2560	2560	2410	2410	2410
1050	1050	1050	1050	1050	1050	1050	1050	2250	2250	2250
2500	2500	2500	2500	2500	2500	2560	2560	2560	2560	2560
1080	1100	1130	1230	1250	1320	1380	1410	1830	1870	2070
1086	1111	1141	1241	1261	1334	1394	1424	1853	1893	2093

VHA with EC fans



Air cooled chiller with scroll or reciprocating compressors and axial fans for outdoor installation

Greenmiser		VHA F4V20A EC-ZE	VHA F4V25A EC-ZE	VHA F4Z30A EC-ZE	VHA F4Z40A EC-ZE		
CHILLER PERFORMANCE							
Refrigerant		R290	R290	R290	R290		
Total cooling capacity	kW	172.04	232.32	247.48	278.48		
Nominal power input	kW	56.2	77	83.8	93.4		
E.E.R.	Coef.	3.06	3.02	2.95	2.98		
Energy class		B	B	B	B		
E.S.E.E.R.	Coef.	4.37	4.24	4.59	4.3		
Noise Pressure Level	dB(A)	58	59	59	59		
Distance	m	10	10	10	10		
WORKING CONDITIONS							
Compressors type	Type	Recip.	Recip.	Recip.	Recip.		
Compressors number	n°	4	4	4	4		
Inlet water temperature	°C	12	12	12	12		
Outlet water temperature	°C	6	6	6	6		
Ambient temperature	°C	35	35	35	35		
Condenser coil type (*1)	Type	M	M	M	M		
Evaporator type (*2)	Type	BPHE	BPHE	BPHE	BPHE		
Power circuit voltage	V/Ph/Hz	400/3/50	400/3/50	400/3/50	400/3/50		
Control circuit voltage	V/Ph/Hz	230/1/50	230/1/50	230/1/50	230/1/50		
Total power input	kW	56.2	77	83.8	93.4		
Total running current	A	103.6	142	155.2	173.2		
Total max current	A	132	187.2	182.4	226.8		
Total starting current	A	384.4	534.9	587.3	654.8		
DIMENSIONS							
Length with cabinet	mm	2410	2410	4510	4510		
Width	mm	2250	2250	2250	2250		
Height	mm	2560	2560	2560	2560		
Shipping weight	kg	2160	2220	2930	3080		
Operating weight	kg	2183	2243	2953	3103		
(*1) M: Microchannels (*2) S&T or BPHE: Shell and Tube - Brazed Plate Heat Exchanger							

HOW DOES GEOCLIMA CONTRIBUTE TO ENERGY SAVING?

**FIRST: MOVING
TO LOW GWP
REFRIGERANTS
SUCH AS HFO-1234ze**