AIRSTAGE V-III TROPICAL Series

Space Saving Combination

Nominal Capacity		HP	8	10	12	14	16	18*	20	22	24	26	28*	28	30	32	34*	34	36*	36	38*	38	40	42	44*	46*	48	50*	52*	54*
		Btu/hr	72,000	90,000	108,000	126,000	144,000	162,000	180,000	198,000	216,000	234,000	252,000	252,000	270,000	288,000	306,000	306,000	324,000	324,000	342,000	342,000	360,000	378,000	396,000	414,000	432,000	450,000	468,000	486,000
		Ton	6	7.5	9	10.5	12	13.5	15	16.5	18	19.5	21	21	22.5	24	25.5	25.5	27	27	28.5	28.5	30	31.5	33	34.5	36	37.5	39	40.5
Model name			AJ*072LN**H*	AJ*090LN**H*	AJ*108LN**H*	AJ*126LN**H*	AJ*144LN**H*	AJ*162LN**H*	AJ*180LN**H*	AJ*198LN**H*	AJ*216LN**H*	AJ*234LN**H*	AJ*252LN**H*	AJ*252LN**H*	AJ*270LN**H*	AJ*288LN**H*	AJ*306LN**H*	AJ*306LN**H*	AJ*324LN**H*	AJ*324LN**H*	AJ*342LN**H*	AJ*342LN**H*	AJ*360LN**H*	AJ*378LN**H*	AJ*396LN**H*	AJ*414LN**H*	AJ*432LN**H*	AJ*450LN**H*	AJ*468LN**H*	AJ*486LN**H*
Unit 1			AJ*072LN**H*	AJ*090LN**H*	AJ*108LN**H*	AJ*126LN**H*	AJ*144LN**H*	AJ*162LN**H*	AJ*090LN**H*	AJ*126LN**H*	AJ*126LN**H*	AJ*144LN**H*	AJ*162LN**H*	AJ*126LN**H*	AJ*144LN**H*	AJ*144LN**H*	AJ*162LN**H*	AJ*126LN**H*	AJ*162LN**H*	AJ*144LN**H*	AJ*162LN**H*	AJ*126LN**H*	AJ*144LN**H*	AJ*144LN**H*	AJ*162LN**H*	AJ*162LN**H*	AJ*144LN**H*	AJ*162LN**H*	AJ*162LN**H*	AJ*162LN**H*
Unit 2									AJ*090LN**H*	AJ*072LN**H*	AJ*090LN**H*	AJ*090LN**H*	AJ*090LN**H*	AJ*126LN**H*	AJ*126LN**H*	AJ*144LN**H*	AJ*144LN**H*	AJ*090LN**H*	AJ*162LN**H*	AJ*090LN**H*	AJ*090LN**H*	AJ*126LN**H*	AJ*126LN**H*	AJ*144LN**H*	AJ*144LN**H*	AJ*162LN**H*	AJ*144LN**H*	AJ*144LN**H*	AJ*162LN**H*	AJ*162LN**H*
Unit 3																		AJ*090LN**H*		AJ*090LN**H*		AJ*090LN**H*	AJ*090LN**H*	AJ*090LN**H*	AJ*090LN**H*	AJ*090LN**H*				
Maximum Connectable Indoor Unit			13	16	19	23	26	29	33	36	40	43	46	47	50	53	55	55	55	55	55	55	55	55	55	55	55	55	55	55
Indoor unit connectable capacity		kW	11.2-29.1	14-36.4	16.8-43.5	20.0-52.0	22.5-58.5	25.0-65.0	28.0-72.8	31.2-81.1	34.0-88.4	36.5-94.9	39.0-101.4	40.0-104.0	42.5-110.5	45.0-117.0	47.5-123.5	48.0-124.8	50.0-130.0	50.5-131.3	53.0-137.8	54.0-140.4	56.5-146.9	59.0-153.4	61.5-159.9	64.0-166.4	67.5-175.5	70.0-182.0	72.5-188.5	75.0-195.0
Power source			3 phase 4 wire, 400 V, 50Hz												3 phase 4 wire, 400 V, 50Hz															
Capacity	Cooling(T1)	kW	22.4	28	33.5	40	45	50	56	62.4	68	73	78	80	85	90	95	96	100	101	106	108	113	118	123	128	135	140	145	150
		Btu/h	76400	95500	114300	136500	153500	170600	191000	212900	232000	249000	266100	273000	290000	307000	324100	327500	341200	344500	361600	368500	385500	402500	419600	436700	460500	477600	494700	511800
	Cooling(T3)	kW	20.2	25.2	28.5	32	35.1	35.2	50.4	52.2	57.2	60.3	60.4	64.0	67.1	70.2	70.3	82.4	70.4	85.5	85.6	89.2	92.3	95.4	95.5	95.6	105.3	105.4	105.5	105.6
		Btu/h	68900	86000	97200	109200	119800	120100	172000	178100	195200	205800	206100	218400	229000	239600	239900	281200	240200	291800	292100	304400	315000	325600	325900	326200	359400	359700	360000	360300
	Heating	kW	22.4	28.0	33.5	40.0	40.0	40.0	56.0	62.4	68.0	68.0	68.0	80.0	80.0	80.0	80.0	96.0	80.0	96.0	96.0	108.0	108.0	108.0	108.0	108.0	120.0	120.0	120.0	120.0
		Btu/h	76400	95500	114300	136500	136500	136500	191000	212900	232000	232000	232000	273000	273000	273000	273000	327500	273000	327500	327500	368500	368500	368500	368500	368500	409500	409500	409500	409500
Input power (Outdoor unit)	Cooling(T3)*1	kW	6.74	8.87	9.44	10.84	12.01	11.86	17.74	17.58	19.71	20.88	20.73	21.68	22.85	24.02	23.87	28.58	23.72	29.75	29.6	30.55	31.72	32.89	32.74	32.59	36.03	35.88	35.73	35.58
	Heating		4.86	6.46	7.27	9.21	9.41	9.22	12.92	14.07	15.67	15.87	15.68	18.42	18.62	18.82	18.63	22.13	18.44	22.33	22.14	24.88	25.08	25.28	25.09	24.9	28.23	28.04	27.85	27.66
Current (Outdoor Unit)	Cooling(T3)*1	A	11.2	14.2	15.1	17.2	19.0	18.6	28.4	28.4	31.4	33.2	32.8	34.4	36.2	38.0	37.6	45.6	37.2	47.4	47.0	48.6	50.4	52.2	51.8	51.4	57.0	56.6	56.2	55.8
	Heating		8.2	10.6	12.1	14.6	15.1	14.8	21.2	22.8	25.2	25.7	25.4	29.2	29.7	30.2	29.9	35.8	29.6	36.3	36.0	39.8	40.3	40.8	40.5	40.2	45.3	45.0	44.7	44.4
Power factor (Outdoor unit)			0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
EER (Outdoor Unit)	Cooling(T1)*2	W/W	4.31	3.85	3.8	3.65	3.46	3.02	3.85	3.86	3.73	3.60	3.27	3.65	3.55	3.46	3.21	3.76	3.02	3.66	3.41	3.70	3.62	3.54	3.34	3.17	3.46	3.29	3.14	3.02
EER (System)	Cooling(T3)*1	W/W	2.91	2.76	2.92	2.86	2.83	2.86	2.76	2.88	2.81	2.80	2.82	2.86	2.84	2.83	2.84	2.80	2.86	2.79	2.80	2.83	2.82	2.81	2.82	2.83	2.83	2.84	2.85	2.86
		Btu/h	9.90	9.40	9.95	9.70	9.60	9.70	9.40	9.80	9.60	9.50	9.60	9.70	9.65	9.60	9.65	9.50	9.70	9.50	9.55	9.65	9.60	9.55	9.60	9.65	9.60	9.65	9.70	9.70
COP (System)	Heating	W/W	4.42	4.17	4.42	4.18	4.07	4.13	4.17	4.26	4.17	4.11	4.15	4.18	4.13	4.07	4.10	4.17	4.13	4.13	4.15	4.18	4.14	4.10	4.12	4.14	4.07	4.09	4.11	4.13
		Btu/h	15.05	14.20	15.05	14.25	13.85	14.05	14.20	14.50	14.20	14.00	14.10	14.25	14.05	13.85	13.95	14.20	14.05	14.05	14.15	14.20	14.10	13.95	14.05	14.10	13.85	13.95	14.00	14.05
CSPF*1		Btu/hW	21.0	21.5	21.0	19.5	19.1	17.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Air flow rate		m³/h	11,100	11,100	13,000	13,000	13,700	13,700	22,200	24,100	24,100	24,800	24,800	26,000	26,700	27,400	27,400	35,200	27,400	35,900	35,900	37,100	37,800	38,500	38,500	38,500	41,100	41,100	41,100	41,100
Sound pressure level	Cooling	dB(A)	56	58	57	60	63	63	61	61	62	64	64	63	65	66	66	64	66	65	65	64	66	67	67	67	68	68	68	68
	Heating		58	59	60	62	64	64	62	63	64	65	65	65	66	67	67	65	67	66	66	66	67	68	68	68	69	69	69	69
External static pressure (Max)		Pa	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82
Compressor motor output		kW	7.5	7.5	11	11	11	11	7.5 × 2	7.5 × 2	7.5 × 2	7.5 × 2	7.5 × 2	7.5 × 2	7.5 × 2	7.5 × 2	7.5 × 2	7.5 × 3	7.5 × 2	7.5 × 3	7.5 × 3	7.5 × 3	7.5 × 3	7.5 × 3	7.5 × 3	7.5 × 3	7.5 × 3	7.5 × 3	7.5 × 3	7.5 × 3
Heat exchanger fin			Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin
Dimensions	Height	mm	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690		1,690		1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690
	Width		930	930	1,240	1,240	1,240	1,240	930 × 2	1240 + 930	1240 + 930	1240 + 930	1240 + 930	1240 × 2	1240 × 2	1240 × 2	1240 × 2	1240 + 930 × 2	1240 × 2	1240 + 930 × 2	1240 + 930 × 2	1240 × 2 + 930	1240 × 2 + 930	1240 × 2 + 930	1240 × 2 + 930	1240 × 2 + 930	1240 × 2 + 930	1240 × 3	1240 × 3	1240 × 3
	Depth		765	765	765	765	765	765	765	765	765	765	765	765	765	765	765	765		765		765	765	765	765	765	765	765	765	765
Weight		kg	255	255	279	279	279	279	255 × 2	279 + 255	279 + 255	279 + 255	279 + 255	279 × 2	279 × 2	279 × 2	279 × 2	279 + 255 × 2	279 × 2	279 + 255 × 2	279 + 255 × 2	279 × 2 + 255	279 × 2 + 255	279 × 2 + 255	279 × 2 + 255	279 × 2 + 255	279 × 2 + 255	279 × 3	279 × 3	279 × 3	279 × 3
Refrigerant	Type		R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
	Factory charged amount	kg	11.7	11.7	11.8	11.8	11.8	11.8	11.7 x 2	11.8 + 11.7	11.8 + 11.7	11.8 + 11.7	11.8 + 11.7	11.8 × 2	11.8 × 2	11.8 × 2	11.8 × 2	11.8 + 11.7 × 2	11.8 × 2	11.8 + 11.7 × 2	11.8 + 11.7 × 2	11.8 × 2 + 11.7	11.8 × 2 + 11.7	11.8 × 2 + 11.7	11.8 × 2 + 11.7	11.8 × 2 + 11.7	11.8 × 2 + 11.7	11.8 × 3	11.8 × 3	11.8 × 3	11.8 × 3
Connection pipe diameter	Liquid	mm	12.70	12.70	12.70	12.70	12.70	15.88	15.88	15.88	15.88	15.88	15.88	15.88	19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05
	Gas		22.22	22.22	28.58	28.58	28.58	28.58	28.58	34.92	34.92	34.92	34.92	34.92	34.92	34.92	34.92	34.92	41.27	41.27	41.27	41.27	41.27	41.27	41.27	41.27	41.27	41.27	41.27	41.27
Operating range	Cooling	˚CDB	-15 to 52	-15 to 52	-15 to 52	-15 to 52	-15 to 52	-15 to 52	-5 to 52	-5 to 52	-5 to 52	-5 to 52	-5 to 52	-5 to 52	-5 to 52	-5 to 52	-5 to 52	-5 to 52	-5 to 52	-5 to 52	-5 to 52	-5 to 52	-5 to 52	-5 to 52	-5 to 52	-5 to 52	-5 to 52	-5 to 52	-5 to 52	-5 to 52
	Heating		-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21

*: Not available to sale in some regions

Energy Efficiency Combination

Nominal Capacity		HP	16	18	20	24	26	28	30	32	34	36*	38	40	42	44*	46*
		Btu/hr	144,000	162,000	180,000	216,000	234,000	252,000	270,000	288,000	306,000	324,000	342,000	360,000	378,000	396,000	414,000
		Ton	12	13.5	15	18	19.5	21	22.5	24	25.5	27	28.5	30	31.5	33	34.5
Model name			AJ*144LN**H*	AJ*162LN**H*	AJ*180LN**H*	AJ*216LN**H*	AJ*234LN**H*	AJ*252LN**H*	AJ*270LN**H*	AJ*288LN**H*	AJ*306LN**H*	AJ*324LN**H*	AJ*342LN**H*	AJ*360LN**H*	AJ*378LN**H*	AJ*396LN**H*	AJ*414LN**H*
Unit 1			AJ*072LN**H*	AJ*090LN**H*	AJ*108LN**H*	AJ*072LN**H*	AJ*090LN**H*	AJ*108LN**H*	AJ*126LN**H*	AJ*108LN**H*	AJ*126LN**H*	AJ*108LN**H*	AJ*126LN**H*	AJ*126LN**H*	AJ*126LN**H*	AJ*144LN**H*	AJ*144LN**H*
Unit 2			AJ*072LN**H*	AJ*072LN**H*	AJ*072LN**H*	AJ*072LN**H*	AJ*072LN**H*	AJ*072LN**H*	AJ*072LN**H*	AJ*108LN**H*	AJ*108LN**H*	AJ*108LN**H*	AJ*108LN**H*	AJ*126LN**H*	AJ*126LN**H*	AJ*126LN**H*	AJ*144LN**H*
Unit 3						AJ*072LN**H*	AJ*072LN**H*	AJ*072LN**H*	AJ*072LN**H*	AJ*072LN**H*	AJ*072LN**H*	AJ*108LN**H*	AJ*108LN**H*	AJ*108LN**H*	AJ*126LN**H*	AJ*126LN**H*	AJ*126LN**H*
Maximum Connectable Indoor Unit			26	29	33	39	43	46	50	52	55	55	55	55	55	55	55
Indoor unit connectable capacity		kW	22.4-58.2	25.2-65.5	28.0-72.6	33.6-87.3	36.4-94.6	39.2-101.7	42.4-110.2	44.7-116.2	48.0-124.7	50.3-130.6	53.5-139.1	56.8-147.5	60.0-156.0	62.5-162.5	65.0-169.0
Power source			3 phase 4 wire, 400 V, 50Hz								3 phase 4 wire, 400 V, 50Hz						
Capacity	Cooling(T1)	kW	44.8	50.4	55.9	67.2	72.8	78.3	84.8	89.4	95.9	100.5	107	113.5	120	125	130
		Btu/h	152800	171900	190700	229200	248300	267100	289300	305000	327200	342900	365100	387300	409500	426500	443500
	Cooling(T3)	kW	40.4	45.4	48.7	60.6	65.6	68.9	72.4	77.2	80.7	85.5	89	92.5	96	99.1	102.2
		Btu/h	137800	154900	166100	206700	223800	235000	247000	263300	275300	291600	303600	315600	327600	338200	348800
	Heating	kW	44.8	50.4	55.9	67.2	72.8	78.3	84.8	89.4	95.9	100.5	107.0	113.5	120.0	120.0	120.0
		Btu/h	152800	171900	190700	229200	248300	267100	289300	305000	327200	342900	365100	387300	409500	409500	409500
Input power (Outdoor unit)	Cooling(T3)*1	kW	13.48	15.61	16.18	20.22	22.35	22.92	24.32	25.62	27.02	28.32	29.72	31.12	32.52	33.69	34.86
	Heating		9.72	11.32	12.13	14.58	16.18	16.99	18.93	19.4	21.34	21.81	23.75	25.69	27.63	27.83	28.03
Current (Outdoor Unit)	Cooling(T3)*1	A	22.4	25.4	26.3	33.6	36.6	37.5	39.6	41.4	43.5	45.3	47.4	49.5	51.6	53.4	55.2
	Heating		16.4	18.8	20.3	24.6	27	28.5	31	32.4	34.9	36.3	38.8	41.3	43.8	44.3	44.8
Power factor (Outdoor unit)			0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
EER (Outdoor Unit)	Cooling(T1)*2	W/W	4.31	4.04	3.99	4.31	4.12	4.07	3.97	3.91	3.84	3.80	3.74	3.69	3.65	3.58	3.52
EER (System)	Cooling(T3)*1	W/W	2.91	2.82	2.92	2.91	2.85	2.91	2.88	2.92	2.89	2.92	2.90	2.88	2.86	2.85	2.84
		Btu/h	9.90	9.60	9.95	9.90	9.70	9.90	9.80	9.95	9.85	9.95	9.85	9.80	9.75	9.70	9.65
COP (System)	Heating	W/W	4.42	4.27	4.42	4.42	4.32	4.42	4.30	4.42	4.32	4.42	4.33	4.25	4.18	4.14	4.11
		Btu/h	15.05	14.55	15.05	15.05	14.70	15.05	14.65	15.05	14.70	15.05	14.75	14.50	14.25	14.10	14.00
CSPF*1		Btu/hW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Air flow rate		m³/h	22,200	22,200	24,100	33,300	33,300	35,200	35200	37100	37100	39000	39000	39000	39000	39700	40400
Sound pressure level	Cooling	dB(A)	59	60	60	61	62	61	63	61	63	62	63	64	65	66	67
	Heating		61	62	62	63	63	64	65	64	65	65	66	66	67	68	68
External static pressure (Max)		Pa	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82
Compressor motor output		kW	7.5 x 2	7.5 x 2	7.5 x 2	7.5 x 3	7.5 x 3	7.5 x 3	7.5 x 3	7.5 x 3	7.5 x 3	7.5 x 3	7.5 x 3	7.5 x 3	7.5 x 3	7.5 x 3	7.5 x 3
Heat exchanger fin			Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin
Dimensions	Height	mm	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690
	Width		930 × 2	930 × 2	1240 + 930	930 × 3	930 × 3	1240 + 930 × 2	1240 + 930 × 2	1240 × 2 + 930	1240 × 2 + 930	1240 × 3	1240 × 3	1240 × 3	1240 × 3	1240 × 3	1240 × 3
	Depth		765	765	765	765	765	765	765	765	765	765	765	765	765	765	765
Weight		kg	255 × 2	255 × 2	279 + 255	255 × 3	255 × 3	279 + 255 × 2	279 + 255 × 2	279 × 2 + 255	279 × 2 + 255	279 × 3	279 × 3	279 × 3	279 × 3	279 × 3	279 × 3
Refrigerant	Type		R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
	Factory charged amount	kg	11.7 x 2	11.7 x 2	11.8 + 11.7	11.7 x 3	11.7 x 3	11.8 + 11.7 × 2	11.8 + 11.7 × 2	11.8 × 2 + 11.7	11.8 × 2 + 11.7	11.8 × 3	11.8 × 3	11.8 × 3	11.8 × 3	11.8 × 3	11.8 × 3
Connection pipe diameter	Liquid	mm	12.70	15.88	15.88	15.88	15.88	15.88	19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05
	Gas		28.58	28.58	28.58	34.92	34.92	34.92	34.92	34.92	34.92	41.27	41.27	41.27	41.27	41.27	41.27
Operating range	Cooling	˚CDB	-5 to 52	-5 to 52	-5 to 52	-5 to 52	-5 to 52	-5 to 52	-5 to 52	-5 to 52	-5 to 52	-5 to 52	-5 to 52	-5 to 52	-5 to 52	-5 to 52	-5 to 52
	Heating		-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21

Note: Specifications are based on the following conditions.
*1: As per ESMA standard: UAE.S 5010-5:2019
*2: As per AD QCC standard: QCC-PCS-ASP017.01

Space saving: AJ*_LN**H* : AJH_LNTCH-U, AJG_LNLBH
High Efficiency: AJ*_LN**H* : AJH_LNTCH-UH, AJG_LNLBHH