Technoice

Heat - exchange coils

HERMETIC CONDENSING UNITS

Al Atassi

For Manufacturing & Trading

CERTIFIED QUALITY SYSTEM ISO 9001 AV INTERNATIONAL

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PERFORMANCE DATA

Al Atassi
For Manufacturing & Trading

NTZ R404A / R507A

Model	To	-45		-40		-35		-30		-25		-20		-15		-10	
	Ta	Qo	Pe	Qo	Pe	Qo	Pe	Qo	Pe	Qo	Pe	Qo	Pe	Qo	Pe	Qo	Pe
NTZ048	32	190	0.35	420	0.59	710	0.84	1 240	1.09	1 700	1.34	2 240	1.57	2 860	1.79	3 570	1.99
NTZ068	32	520	1.02	870	1.28	1290	1.54	2110	1.81	2785	2.09	3570	2.38	4490	2.68	5540	2.99
NTZ096	32	-	-	910	1.29	1 420	1.67	2 430	2.09	3 360	2.53	4 510	2.99	5 900	3.47	7 550	3.97
NTZ108	32	-	-	1120	1.57	1770	2.03	3010	2.49	4080	2.95	5340	3.40	680	3.85	8530	4.29
NTZ136	32	-	-	1 570	2.27	2 360	2.86	3 890	3.47	5 200	4.08	6 750	4.69	8 570	5.29	10 710	5.87
NTZ215	32	1 190	2.31	2 240	3.17	3 540	4.08	5 970	5.01	8 030	5.94	10 440	6.86	13 220	7.72	16 420	8.52
NTZ271	32	2 120	3.57	3 470	4.61	5 140	5.66	8 380	6.73	11 050	7.81	14 190	8.90	17 840	10.00	22 040	11.10
NTZ430	32	2 370	4.61	4 480	6.33	7 080	8.15	11 930	10.02	16 060	11.89	20 880	13.71	26 450	15.44	32 840	17.04
NTZ542	32	4 240	7.14	6 940	9.21	10 290	11.32	16 760	13.46	22 110	15.62	28 380	17.80	35 670	19.99	44 080	22.20

Legend:
To: Evaporating temperature in °C
Ta: Ambient temperature in °C
Qo: Cooling capacity in W
Pe: Power input in kW
Superheat = 10K; Subcooling = 0 K
Suction temp. = 20°C; Subcooling = 0 K
Voltage: 400V / 3 / 50 Hz

MT R22

Model	To	-25		-20		-15		-10		-5		0		5		10		15	
	Ta	Qo	Pe	Qo	Pe	Qo	Pe	Qo	Pe	Qo	Pe	Qo	Pe	Qo	Pe	Qo	Pe	Qo	Pe
MT018	32	570	0.64	890	0.76	1 300	0.88	1 810	1.00	2 450	1.10	3 220	1.19	4 150	1.26	5 260	1.31	6 550	1.33
MT022	32	740	0.77	1 280	0.95	1 920	1.12	2 670	1.29	3 540	1.44	4 560	1.56	5 720	1.66	7 040	1.73	8 550	1.76
MT028	32	1 460	1.22	2 190	1.43	3 030	1.63	4 000	1.81	5 090	1.98	6 330	2.11	7 720	2.20	9 280	2.25	11 000	2.24
MT032	32	1 550	1.46	2 310	1.68	3 190	1.90	4 230	2.11	5 440	2.31	6 830	2.47	8 420	2.60	10 200	2.69	12 300	2.74
MT036	32	1 960	1.68	2 890	1.90	3 950	2.13	5 150	2.35	6 500	2.56	8 020	2.76	9 710	2.93	11 600	3.07	13 700	3.17
MT040	32	2 050	1.77	3 080	2.08	4 260	2.39	5 590	2.67	7 090	2.93	8 780	3.15	10 700	3.32	12 800	3.42	15 100	3.45
MT044	32	2 350	1.82	3 240	2.13	4 340	2.44	5 680	2.72	7 310	2.98	9 250	3.19	11 600	3.34	14 200	3.43	17 400	3.44
MT045	32	1 920	1.70	2 760	1.97	3 850	2.22	5 210	2.46	6 880	2.68	8 880	2.88	11 200	3.07	14 000	3.23	17 100	3.38
MT050	32	2 560	1.99	3 530	2.31	4 740	2.63	6 230	2.95	8 050	3.25	10 200	3.54	12 800	3.79	15 900	4.00	19 400	4.16
MT051	32	2 170	1.93	3 300	2.31	4 660	2.65	6 290	2.94	8 210	3.20	10 500	3.42	13 000	3.61	16 000	3.77	19 400	3.92
MT056	32	2 660	2.21	3 990	2.64	5 530	3.05	7 320	3.44	9 380	3.78	11 700	4.07	14 400	4.28	17 500	4.40	20 900	4.42
MT057	32	2 680	2.20	3 770	2.55	5 170	2.88	6 910	3.18	9 020	3.46	11 500	3.72	14 500	3.96	17 900	4.18	21 900	4.38
MT064	32	3 090	2.57	4 500	3.02	6 190	3.46	8 190	3.89	10 500	4.28	13 300	4.62	16 500	4.91	20 100	5.11	24 300	5.22
MT065	32	3 140	2.40	4 580	2.85	6 290	3.27	8 310	3.64	10 700	3.98	13 400	4.27	16 600	4.53	20 200	4.76	24 300	4.94
MT072	32	3 470	3.07	5 070	3.47	6 950	3.88	9 130	4.29	11 700	4.69	14 600	5.08	17 900	5.44	21 600	5.76	25 900	6.03
MT073	32	3 240	2.61	4 950	3.20	6 960	3.72	9 340	4.19	12 100	4.60	15 300	4.96	19 000	5.27	23 300	5.54	28 100	5.78
MT080	32	3 950	3.46	5 780	3.91	7 930	4.38	10 400	4.84	13 300	5.30	16 600	5.74	20 400	6.14	24 700	6.51	29 500	6.83
MT081	32	4 230	3.32	6 180	3.89	8 450	4.41	11 100	4.89	14 200	5.33	17 700	5.72	21 700	6.09	26 300	6.42	31 500	6.72
MT100	32	4 570	4.06	6 650	4.66	9 150	5.25	12 100	5.79	15 700	6.27	19 900	6.66	24 700	6.94	30 400	7.09	36 800	7.08
MT125	32	6 690	5.48	9 360	6.17	12 500	6.87	16 400	7.55	20 800	8.18	26 100	8.75	32 200	9.24	39 300	9.63	47 400	9.88
MT144	32	7 700	6.16	10 700	6.94	14 200	7.71	18 500	8.47	23 600	9.17	29 600	9.81	36 600	10.36	44 700	10.80	54 000	11.09
MT160	32	8 660	6.93	11 900	7.79	15 800	8.65	20 600	9.49	26 200	10.28	32 800	11.00	40 500	11.61	49 500	12.10	59 800	12.44

MTZ R407C

Model	To	-15		-10		-5		0		5		10		15	
	Ta	Qo	Pe	Qo	Pe	Qo	Pe	Qo	Pe	Qo	Pe	Qo	Pe	Qo	Pe
MTZ018	32	1 180	0.82	1 750	0.94	2 430	1.04	3 240	1.13	4 180	1.20	5 270	1.25	6 530	1.30
MTZ022	32	1 770	1.07	2 490	1.24	3 330	1.39	4 320	1.50	5 460	1.60	6 790	1.67	8 310	1.73
MTZ028	32	2 160	1.30	3 110	1.52	4 220	1.72	5 520	1.89	7 030	2.03	8 770	2.13	10 800	2.21
MTZ032	32	2 710	1.50	3 740	1.75	4 940	1.95	6 330	2.12	7 940	2.27	9 800	2.38	11 900	2.48
MTZ036	32	3 270	1.81	4 400	2.10	5 710	2.36	7 200	2.57	8 920	2.73	10 900	2.86	13 100	2.95
MTZ040	32	3 890	2.18	5 150	2.48	6 610	2.74	8 290	2.98	10 200	3.18	12 400	3.35	15 000	3.48
MTZ044	32	3 390	2.21	4 770	2.47	6 420	2.72	8 390	2.94	10 700	3.14	13 400	3.28	16 500	3.38
MTZ045	32	3 570	1.97	4 920	2.28	6 590	2.54	8 610	2.76	11 000	2.94	13 800	3.10	17 100	3.24
MTZ050	32	3 880	2.42	5 450	2.74	7 330	3.04	9 570	3.32	12 200	3.57	15 300	3.78	18 800	3.94
MTZ051	32	4 200	2.34	5 780	2.70	7 650	3.00	9 860	3.24	12 500	3.45	15 500	3.61	19 000	3.75
MTZ056	32	4 460	2.67	6 260	3.05	8 420	3.43	11 000	3.78	14 000	4.10	17 500	4.38	21 500	4.60
MTZ057	32	4 540	2.50	6 310	2.90	8 440	3.24	11 000	3.53	13 900	3.77	17 400	3.98	21 400	4.16
MTZ064	32	5 020	2.91	7 060	3.36	9 490	3.80	12 400	4.22	15 700	4.61	19 600	4.96	24 100	5.25
MTZ065	32	5 550	2.91	7 480	3.35	9 820	3.73	12 600	4.05	15 900	4.32	19 800	4.57	24 300	4.79
MTZ072	32	5 850	3.30	8 110	3.81	10 800	4.32	13 900	4.80	17 600	5.25	21 900	5.64	26 700	5.98
MTZ073	32	6 300	3.49	8 540	3.96	11 200	4.39	14 400	4.77	18 200	5.11	22 600	5.39	27 700	5.63
MTZ080	32	6 850	3.76	9 380	4.35	12 400	4.93	15 800	5.48	19 900	6.00	24 500	6.46	29 800	6.85
MTZ081	32	7 290	4.08	9 860	4.64	12 900	5.12	16 400	5.54	20 600	5.89	25 300	6.19	30 800	6.45
MTZ100	32	7 870	4.81	11 000	5.47	14 800	6.04	19 300	6.52	24 500	6.92	30 700	7.26	37 800	7.56
MTZ125	32	11 500	6.13	15 500	6.97	20 100	7.69	25 600	8.31	31 900	8.84	39 300	9.30	47 700	9.69
MTZ144	32	12 700	7.07	17 000	7.92	22 200	8.70	28 200	9.42	35 300	10.04	43 500	10.58	52 900	11.01
MTZ160	32	15 400	8.21	20 200	9.20	25 800	10.09	32 500	10.91	40 300	11.68	49 400	12.42	59 900	13.16

Legend:
To: Evaporating temperature in °C
Ta: Ambient temperature in °C
Qo: Cooling capacity in W
Pe: Power input in kW
Superheat = 11.1 K
Subcooling = 8.3 K
Voltage: 400V / 3 / 50 Hz

Above data based on ambient temp = 32 °C
for other ambient temp use the following correction factor

ambient Temp	27	32	38	46
correction factor	1.07	1	0.92	0.82

MTZ R134a

Model	To	-15		-10		-5		0		5		10		15		20	
	Ta	Qo	Pe	Qo	Pe	Qo	Pe	Qo	Pe	Qo	Pe	Qo	Pe	Qo	Pe	Qo	Pe
MTZ018	32	700	0.61	1 050	0.69	1 470	0.76	1 970	0.82	2 570	0.87	3 270	0.91	4 090	0.93	5 020	0.93
MTZ022	32	940	0.72	1 370	0.81	1 900	0.91	2 550	0.99	3 320	1.06	4 240	1.11	5 310	1.15	6 560	1.16
MTZ028	32	1 230	0.91	1 720	1.02	2 350	1.13	3 130	1.23	4 090	1.34	5 260	1.43	6 650	1.51	8 300	1.58
MTZ032	32	1 430	1.09	2 020	1.25	2 770	1.40	3 690	1.54	4 810	1.66	6 160	1.76	7 760	1.83	9 630	1.86
MTZ036	32	2 050	1.29	2 740	1.45	3 580	1.60	4 590	1.74	5 780	1.86	7 170	1.97	8 790	2.05	10 660	2.10
MTZ040	32	2 450	1.47	3 160	1.61	4 000	1.75	4 980	1.89	6 100	2.01	7 390	2.12	8 860	2.21	10 520	2.27
MTZ044	32	2 070	1.62	2 900	1.80	3 940	1.96	5 210	2.12	6 760	2.25	8 610	2.35	10 800	2.42	13 350	2.45
MTZ045	32	2 080	1.29	2 910	1.49	3 940	1.67	5 190	1.83	6 710	1.95	8 540	2.05	10 710	2.13	13 270	2.17
MTZ050	32	2 400	1.79	3 380	2.01	4 600	2.21	6 090	2.40	7 880	2.56	10 020	2.69	12 540	2.78	15 480	2.83
MTZ051	32	2 360	1.57	3 340	1.80	4 560	2.00	6 040	2.17	7 820	2.31	9 950	2.42	12 470	2.51	15 410	2.57
MTZ056	32	2 680	1.95	3 790	2.20	5 150	2.44	6 820	2.66	8 810	2.85	11 180	3.01	13 970	3.13	17 200	3.20
MTZ057	32	2 290	1.64	3 380	1.88	4 730	2.11	6 400	2.31	8 420	2.49	10 820	2.64	13 650	2.77	16 940	2.86
MTZ064	32	3 030	2.14	4 300	2.43	5 860	2.71	7 750	2.97	10 010	3.20	12 680	3.40	15 810	3.54	19 440	3.63
MTZ065	32	2 700	1.87	4 010	2.17	5 600	2.43	7 510	2.67	9 780	2.87	12 440	3.04	15 550	3.18	19 130	3.27
MTZ072	32	3 650	2.34	5 110	2.67	6 880	2.99	9 000	3.30	11 500	3.58	14 450	3.83	17 870	4.03	21 810	4.18
MTZ073	32	3 200	2.16	4 660	2.50	6 430	2.81	8 560	3.08	11 090	3.33	14 070	3.54	17 540	3.74	21 560	3.92
MTZ080	32	4 430	2.76	6 060	3.11	8 020	3.46	10 360	3.80	13 120	4.13	16 360	4.42	20 100	4.69	24 420	4.91
MTZ081	32	4 130	2.59	5 700	2.93	7 620	3.24	9 950	3.54	12 740	3.80	16 040	4.05	19 920	4.27	24 430	4.48
MTZ100	32	4 660	3.25	6 550	3.65	8 860	4.02	11 680	4.35	15 050	4.63	19 050	4.84	23 730	4.96	29 170	4.98
MTZ125	32	5 870	3.63	8 230	4.17	11 090	4.69	14 520	5.16	18 590	5.57	23 380	5.89	28 950	6.09	35 380	6.18
MTZ144	32	7 880	4.85	10 680	5.40	14 060	5.94	18 090	6.46	22 850	6.93	28 420	7.34	34 870	7.67	42 290	7.92
MTZ160	32	8 770	5.23	11 800	5.84	15 470	6.45	19 890	7.06	25 130	7.65	31 300	8.21	38 480	8.72	46 760	9.18

MTZ R404A / R507A

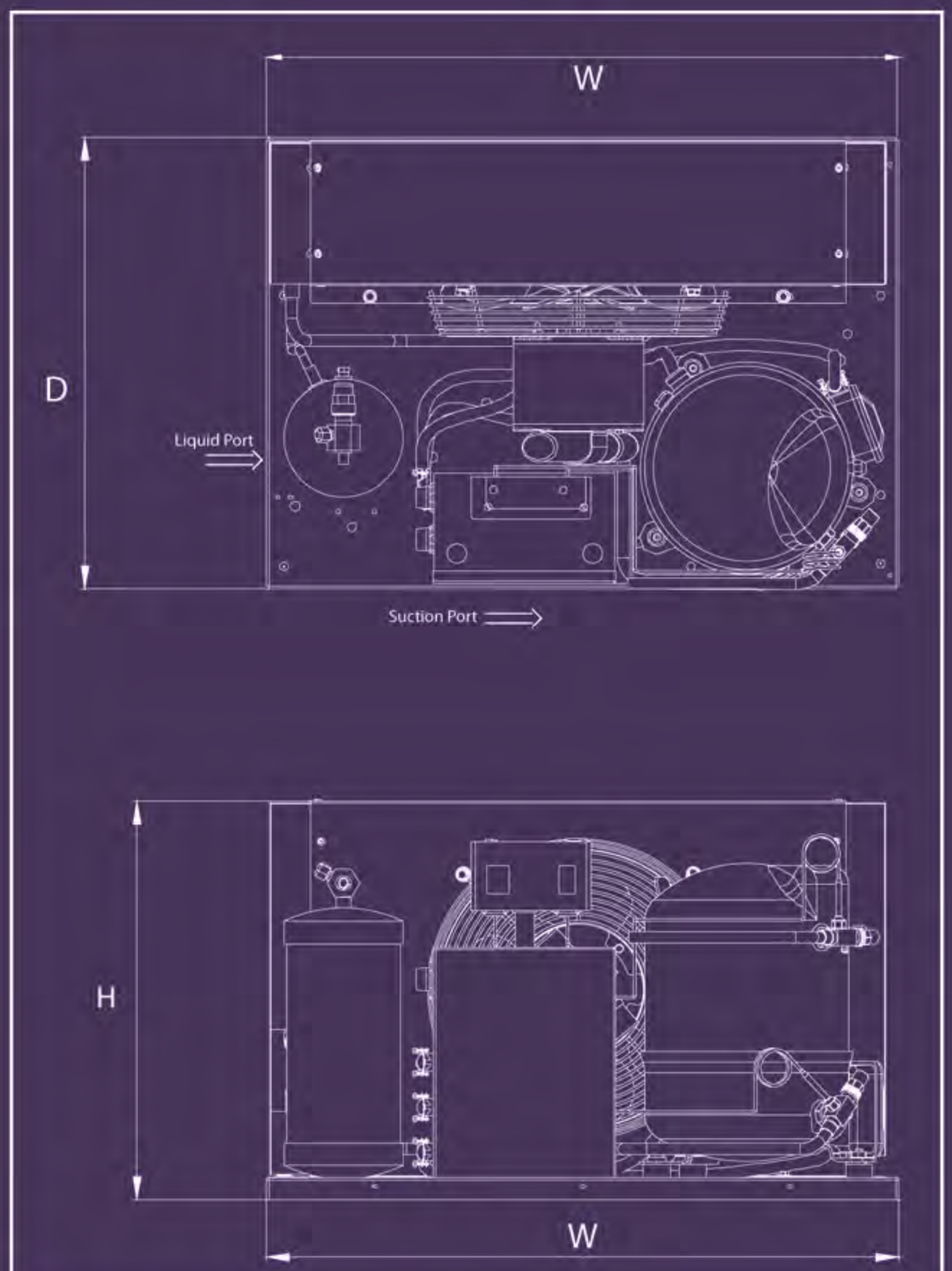
Model	To	-30		-25		-20		-15		-10		-5		0		5		10	
	Ta	Qo	Pe	Qo	Pe	Qo	Pe	Qo	Pe	Qo	Pe	Qo	Pe	Qo	Pe	Qo	Pe	Qo	Pe
MTZ018	32	390	0.69	650	0.83	980	0.96	1 400	1.09	1 900	1.21	2 520	1.31	3 250	1.40	4 110	1.47	5 120	1.53
MTZ022	32	640	0.86	980	1.03	1 410	1.19	1 960	1.34	2 620	1.48	3 440	1.61	4 410	1.72	5 550	1.82	6 880	1.90
MTZ028	32	760	1.05	1 250	1.30	1 850	1.53	2 570	1.75	3 430	1.96	4 450	2.14	5 640	2.31	7 040	2.45	8 640	2.56
MTZ032	32	1 040	1.20	1 580	1.46	2 240	1.71	3 030	1.94	3 980	2.16	5 110	2.36	6 440	2.55	7 980	2.71	9 760	2.86
MTZ036	32	1 300	1.50	1 930	1.78	2 690	2.06	3 600	2.33	4 670	2.58	5 930	2.81	7 400	3.01	9 100	3.19	11 050	3.34
MTZ040	32	1 600	1.70	2 320	2.05	3 160	2.37	4 160	2.67	5 330	2.95	6 700	3.20	8 290	3.44	10 130	3.65	12 230	3.84
MTZ044	32	1 320	2.00	1 970	2.29	2 800	2.59	3 850	2.88	5 150	3.16	6 750	3.42	8 690	3.64	11 010	3.83	13 750	3.96
MTZ045	32	1 360	1.60	2 100	1.94	2 990	2.25	4 070	2.52	5 370	2.77	6 910	3.00	8 740	3.20	10 890	3.38	13 370	3.54
MTZ050	32	1 680	2.27	2 440	2.61	3 420	2.95	4 640	3.29	6 150	3.61	8 000	3.90	10 220	4.15	12 870	4.36	15 990	4.50
MTZ051	32	1 700	1.94	2 500	2.29	3 510	2.62	4 750	2.93	6 260	3.22	8 070	3.48	10 220	3.71	12 740	3.91	15 680	4.07
MTZ056	32	1 650	2.40	2 640	2.81	3 840	3.22	5 280	3.62	7 000	4.00	9 030	4.35	11 420	4.66	14 190	4.90	17 390	5.08
MTZ057	32	1 730	2.04	2 620	2.43	3 710	2.81	5 060	3.17	6 710	3.51	8 690	3.83	11 060	4.11	13 840	4.36	17 090	4.57
MTZ064	32	2 080	2.77	3 200	3.21	4 560	3.66	6 190	4.11	8 130	4.54	10 420	4.94	13 090	5.30	16 190	5.61	19 760	5.84
MTZ065	32	2 160	2.32	3 200	2.83	4 480	3.32	6 060	3.78	7 980	4.20	10 300	4.60	13 070	4.96	16 330	5.28	20 150	5.55
MTZ072	32	2 490	3.05	3 730	3.52	5 220	4.01	7 010	4.50	9 150	4.99	11 680	5.45	14 640	5.88	18 080	6.26	22 040	6.59
MTZ073	32	2 550	2.74	3 670	3.25	5 080	3.75	6 810	4.23	8 920	4.69	11 450	5.11	14 450	5.51	17 970	5.87	22 050	6.19
MTZ080	32	2 770	3.63	4 250	4.17	6 010	4.72	8 080	5.29	10 520	5.84	13 360	6.38	16 640	6.88	20 400	7.34	24 680	7.73
MTZ081	32	3 170	3.15	4 530	3.85	6 170	4.48	8 130	5.07	10 470	5.61	13 230	6.11	16 470	6.57	20 240	7.01	24 580	7.41
MTZ100	32	3 240	4.01	4 930	4.80	6 960	5.53	9 390	6.18	12 280	6.76	15 700	7.26	19 710	7.70	24 370	8.06	29 760	8.34
MTZ125	32	4 660	5.16	6 620	6.02	9 060	6.86	12 060	7.67	15 710	8.44	20 080	9.16	25 250	9.83	31 300	10.44	38 310	10.98
MTZ144	32	5 700	6.08	8 060	7.05	10 920	8.00	14 370	8.91	18 490	9.78	23 380	10.60	29 110	11.36	35 770	12.06	43 450	12.69
MTZ160	32	6 280	6.80	8 870	7.95	12 010	9.04	15 790	10.08	20 310	11.08	25 640	12.05	31 900	13.01	39 160	13.97	47 540	14.95

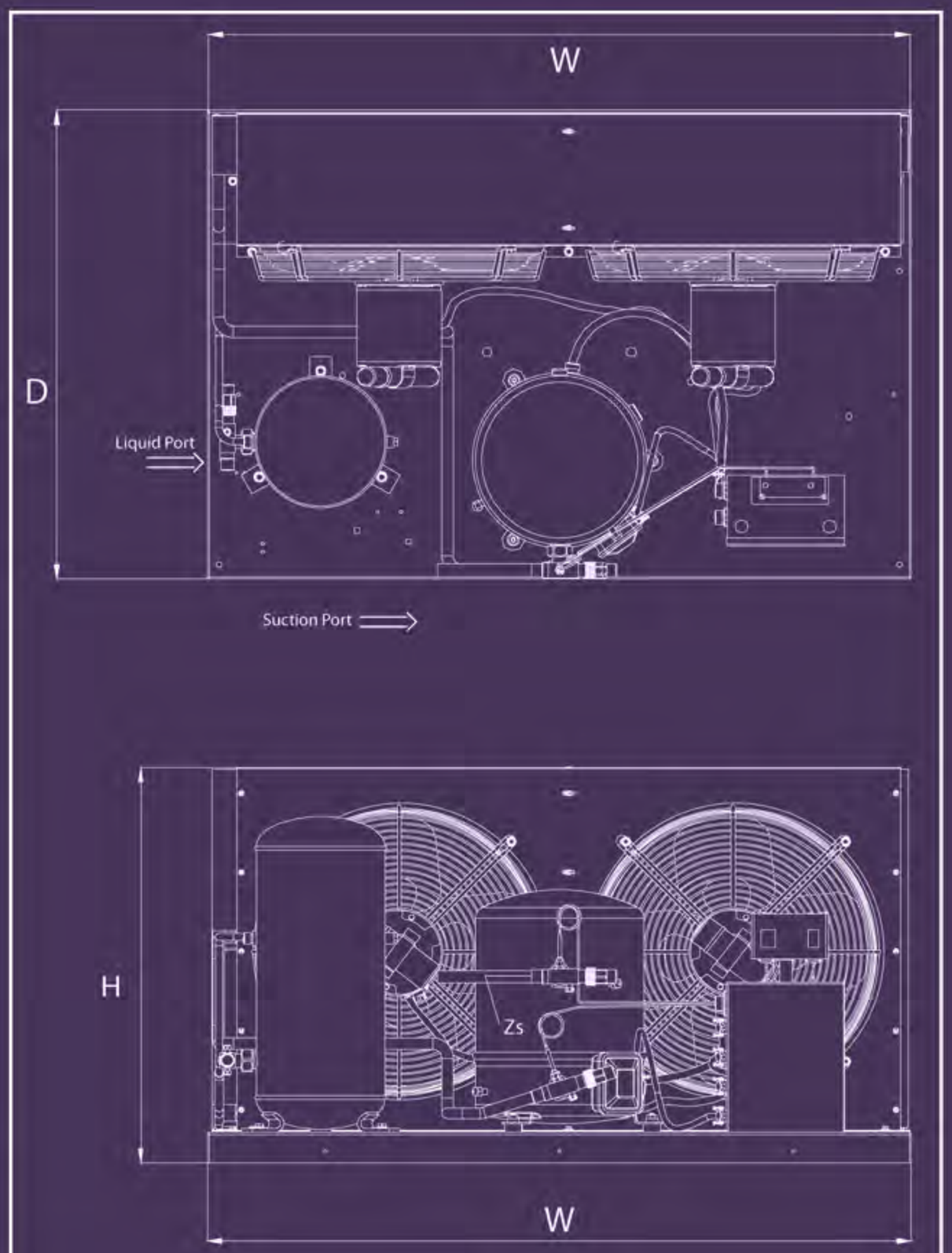
Legend: **To:** Evaporating temperature in °C
Ta: Ambient temperature in °C
Qo: Cooling capacity in W
Pe: Power input in kW
Superheat = 10 K
Subcooling = 0 K
Voltage: 400V / 3 / 50 Hz

■ **AL60Q**

■ **AT101VQ**

■ **AT101HQ**





STANDARD CONDENSING UNITS

Condenser	FAN		Compressor		Dimensions		
	NO	DIA			Width	Depth	Height
		(cm)	NTZ	MT/MTZ	W (cm)	D (cm)	H (cm)
AL40	1	35	48	18/22/28	80	65	60
AL50	1	45	68	28/32	80	65	64
AT50	2	35	68	32/36	100	65	54
AT60	2	35	96	36/40	100	75	54
AT81	2	35	108	40/50	100	75	70
AT91	2	40	136	50/56/64	110	75	70
AT101	2	45	136	56/64/72	125	80	80
AT121	2	45	215	80/100	125	80	80
AT151	2	45	215	100	140	90	90
AT161	2	50	215	125	140	90	90
AT17	2	50	271	125/144	140	90	90
AU51	2	50	271	144/160	170	100	96
AU52	2	63	271	144/160	170	100	96
AU61	2	50	271	160	170	100	96
2*AT121	4	45	271	160	140	100	151
AU61	2	50	271	160	170	110	96
AU62	2	63	271	160	170	110	96

COMPACT QUIET CONDENSING UNITS

AL60Q	1	45	48/68	22/28/36/40/50	110	45	70
AT101HQ	2	45	96/108/136	64/72/80	110	45	110
AT101VQ	2	45	96/108/136	64/72/80	120	45	147