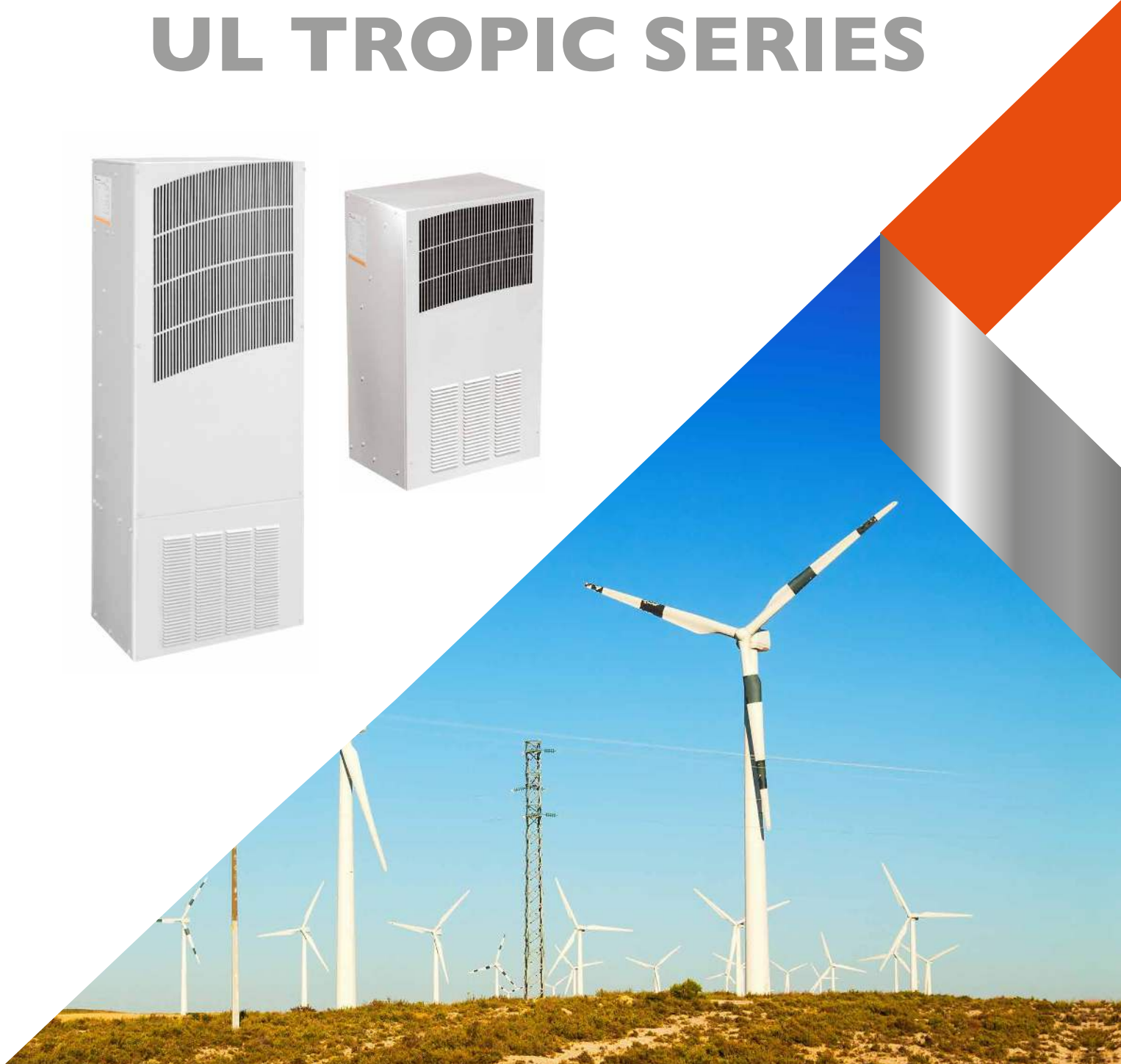




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OUTDOOR COOLING UNITS

UL TROPIC SERIES





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OUTDOOR COOLING UNITS **UL TROPIC SERIES**



Example UL outdoor cooling units mounted on enclosures

Outdoor Cooling Units for Harsh Environments

The UL Tropic outdoor cooling units are offered for the application in especially harsh environments. With an integrated heater, a reliable mechanical thermostat and cooling fan redundancy, the units are also listed according to UL/cUL Typ 12, 3R, 4 and optional 4X. Delvalle provides a wide range of reference based on the voltage, which ranges from 234 W to 5567 W.

The units work reliably in temperatures ranging between -40°C and $+55^{\circ}\text{C}$ and can be installed as an extension or complete installation.

[→ FOR MORE INFORMATION CLICK HERE](#)

APPLICATIONS

- Industrial automation.
- Telecommunications equipment.
- Package handling equipment.
- Security and defense systems.
- Harsh environments.

OPTIONS

- Stainless steel version.
- Thermostat malfunction package.
- Special voltage package.
- Outdoor package.
- Harsh environment package.
- Heater package.



OUTDOOR COOLING UNITS **UL TROPIC SERIES**

FEATURES

- Stock models equipped with head pressure control for low ambient operation, compressor heater, coated condenser coil, malfunction switch, thermostat and heater package.
- R134A or R-407C earth-friendly refrigerant.
- Models for 115, 230 and 460VAC power input.
- UL Listed to save customers time and money with agency approvals.
- Exterior and fully recessed mounting options on many models.
- Compact footprint to minimize real estate and maximize capacity.
- Reliable mechanical thermostat on enclosure side of the unit.
- Dual condenser-side air movers for performance redundancy.
- Painted galvanized sheet-metal cover for rugged factory and outdoor environments.
- Easy-mount flanges for simple installation.
- Cleanable, reusable aluminum mesh filter protects coils for maximum cooling performance.
- Mounting hardware, gaskets and user manual furnished with the unit.
- Standard outdoor air conditioner models also include:
 - Telcordia GR-487 capable
 - Thermostat
 - Corrosion-resistant components
 - Malfunction switch
 - Compressor heater
 - Head pressure control
 - Enclosure heater
- Finish:
 - RAL 7035 light-gray, semi-textured powder-coat paint.
 - Other colors and textures available.



NORMATIVE

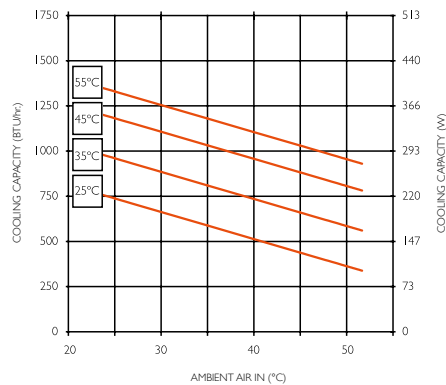
- Agency Approvals UL/cUL Listed
- CE
- EAC
- Telcordia GR-487 capable.
- Type 12, 3R, 4 - standard
- Type 4X - stainless steel optional
- Operating temperature range:
 - -40°C to +55 °C

OUTDOOR COOLING UNITS **UL TROPIC SERIES**

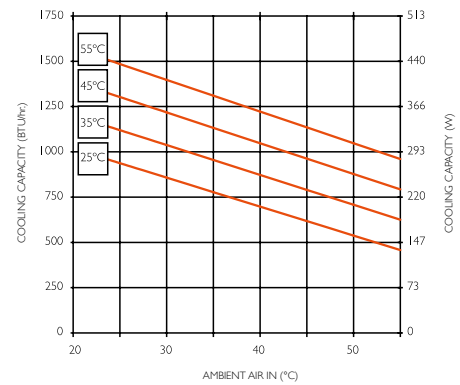
MODEL MVOUT235 800 BTU/hr. (234 W)



Capacity Curves 50 Hz



Capacity Curves 60 Hz



REFERENCES MODEL MVOUT235 - OUTDOOR COOLING UNITS - UL TROPIC SERIES

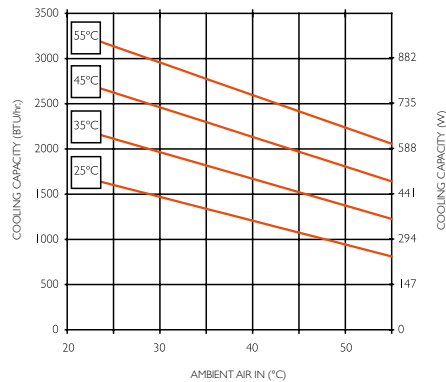
REFERENCES AND MODELS		
Model with heat	MVOUT235BULH	MVOUT235AULH
Model / SST / Corrosion / 4X	-	MVOUT235AUL4X
Model / SST / Corrosion / 4X / Heater	MVOUT235BUL4XH	-
COOLING PERFORMANCE		
Nominal BTU/Hr:	800/800	800/900
Nominal Watts	235/235	235/264
At (55°C/55°C) - BTU/Hr: (50/60 Hz)	819	920/960
At (55°C/55°C) - W (50/60 Hz)	240	270/281
At (35°C/35°C) - BTU/Hr: (50/60 Hz)	948	810/955
At (35°C/35°C) - W (50/60 Hz)	278	237/280
Refrigerant	R-134A	R-134A
Refrigerant charge (grams)	113	107
Operating temperature range - Maximum (°C)	+55	+55
Operating temperature range - Minimum (°C)	-40	-40
Airflow at 0 static pressure - Internal loop 50 Hz (CFM / m3/hr):	25/42	25/42
Airflow at 0 static pressure - External loop 50 Hz (CFM / m3/hr):	48/82	48/82
Airflow at 0 static pressure - Internal loop 60 Hz (CFM / m3/hr):	30/51	30/51
Airflow at 0 static pressure - External loop 60 Hz (CFM / m3/hr):	53/90	53/90
Max. heater W	150	150
ELECTRICAL DATA		
Rated voltage	100/115	220/230
Frequency (Hz)	50/60	50/60
Operating range	+/- 10%	+/- 10%
Max. power consumption (W at 50/60 Hz)	360/403	330/345
Max. nominal current (A at 50/60 Hz)	3.6/3.5	1.5/1.5
Starting current (A)	8.0/9.2	3.3/3.1
DIMENSIONS		
Height (mm)	400	400
Width (mm)	191	191
Depth (mm)	160	160
Weight (kg)	12	12

OUTDOOR COOLING UNITS UL TROPIC SERIES

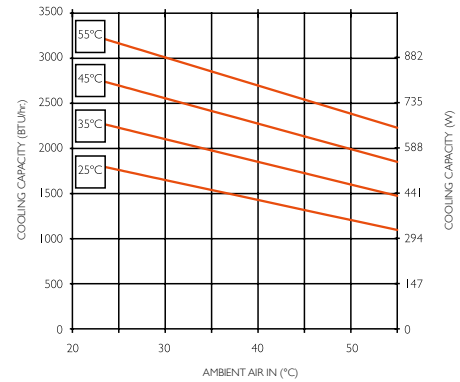
MODEL MVOUT528 2000 BTU/hr. (586 W)



Capacity Curves 50 Hz



Capacity Curves 60 Hz



REFERENCES MODEL MVOUT528 - OUTDOOR COOLING UNITS - UL TROPIC SERIES

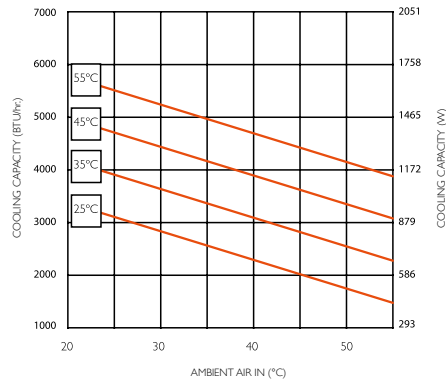
REFERENCES AND MODELS			
Model without heat	-	-	MVOUT586DUL
Model with heat	MVOUT528BULH	MVOUT528AULH	-
Model / SST / Corrosion / 4X	-	-	MVOUT528DUL4X
Model / SST / Corrosion / 4X / Heater	MVOUT528BUL4XH	MVOUT528AUL4XH	-
COOLING PERFORMANCE			
Nominal BTU/Hr.	1800/2000	1800/2000	1800/2000
Nominal Watts	528/586	528/586	528/586
At (55°C/55°C) - BTU/Hr. (50/60 Hz)	2000/2175	2000/2175	2000/2175
At (55°C/55°C) - W (50/60 Hz)	586/637	586/637	586/637
At (35°C/35°C) - BTU/Hr. (50/60 Hz)	1950/2200	1950/2200	1950/2200
At (35°C/35°C) - W (50/60 Hz)	571/645	571/645	571/645
Refrigerant	R-134A	R-134A	R-134A
Refrigerant Charge (grams)	184	184	184
Operating temperature range - Maximum (°C)	+55	+55	+55
Operating temperature range - Minimum (°C)	-40	-40	-40
Airflow at 0 static pressure - Internal loop 50 Hz (CFM / m3/hr.)	77/131	77/131	77/131
Airflow at 0 static pressure - External loop 50 Hz (CFM / m3/hr.)	150/255	150/255	150/255
Airflow at 0 static pressure - Internal loop 60 Hz (CFM / m3/hr.)	91/155	91/155	91/155
Airflow at 0 static pressure - External loop 60 Hz (CFM / m3/hr.)	165/280	165/280	165/280
Max. heater W	500	500	500
ELECTRICAL DATA			
Rated voltage	115	230	460V 1PH
Frequency (Hz)	50/60	50/60	50/60
Operating range	+/- 10%	+/- 10%	+/- 10%
Max. power consumption (W at 50/60 Hz)	700/805	805	874
Max. nominal current (A at 50/60 Hz)	7.0/7.0	3.5/3.5	1.9
Starting current (A)	19	7.6	7.2
DIMENSIONS			
Height (mm)	508	508	508
Width (mm)	254	254	254
Depth (mm)	251	251	251
Weight (kg)	25	25	25

OUTDOOR COOLING UNITS UL TROPIC SERIES

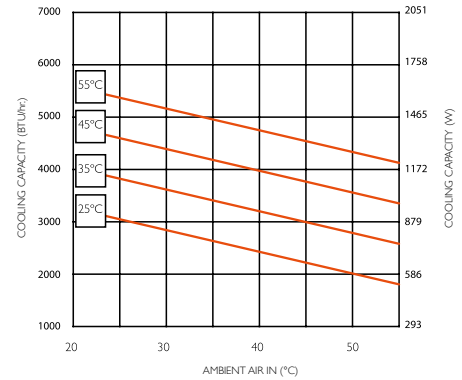
MODEL MVOUT I055 4000 BTU/hr. (1173 W)



Capacity Curves 50 Hz



Capacity Curves 60 Hz



REFERENCES MODEL MVOUT I055 - OUTDOOR COOLING UNITS - UL TROPIC SERIES

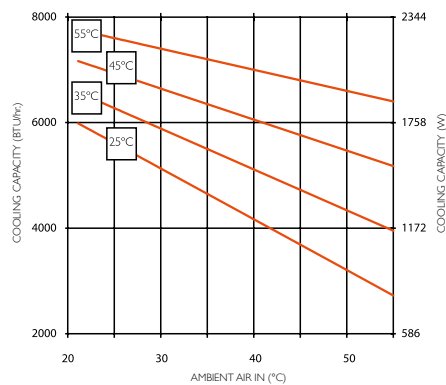
REFERENCES AND MODELS			
Model without heat	-	-	MVOUT I055DUL
Model with heat	MVOUT I055BUL.H	MVOUT I055AUL.H	-
Model / SST / Corrosion / 4X	-	-	MVOUT I055DUL4X
Model / SST / Corrosion / 4X / Heater	MVOUT I055BUL4XH	MVOUT I055AUL4XH	-
COOLING PERFORMANCE			
Nominal BTU/Hr.	3600/4000	3600/4000	3600/4000
Nominal Watts	1055/1172	1055/1172	1055/1172
At (55°C/55°C) - BTU/Hr. (50/60 Hz)	3950/4250	3950/4250	3950/4250
At (55°C/55°C) - W (50/60 Hz)	1157/1245	1157/1245	1157/1245
At (35°C/35°C) - BTU/Hr. (50/60 Hz)	3500/3900	3500/3900	3500/3900
At (35°C/35°C) - W (50/60 Hz)	1025/1143	1025/1143	1025/1143
Refrigerant	R-134A	R-134A	R-134A
Refrigerant charge (grams)	354	404	404
Operating temperature range - Maximum (°C)	+55	+55	+55
Operating temperature range - Minimum (°C)	-40	-40	-40
Airflow at 0 static pressure - Internal loop 50 Hz (CFM / m3/hr.)	172/292	172/292	172/292
Airflow at 0 static pressure - External loop 50 Hz (CFM / m3/hr.)	195/331	195/331	195/331
Airflow at 0 static pressure - Internal loop 60 Hz (CFM / m3/hr.)	205/348	205/348	205/348
Airflow at 0 static pressure - External loop 60 Hz (CFM / m3/hr.)	235/399	235/399	235/399
Max. heater W	1000	1000	1000
ELECTRICAL DATA			
Rated voltage	115	230	460V 1PH
Frequency (Hz)	50/60	50/60	50/60
Operating range	+/- 10%	+/- 10%	+/- 10%
Max. power consumption (W at 50/60 Hz)	1163/1222	1587/1564	1748
Max. nominal current (A at 50/60 Hz)	13.8/12.8	6.9/6.8	3.8
Starting current (A)	48	23	12
DIMENSIONS			
Height (mm)	737	737	737
Width (mm)	432	432	432
Depth (mm)	287	287	287
Weight (kg)	48.6	48.6	48.6

OUTDOOR COOLING UNITS UL TROPIC SERIES

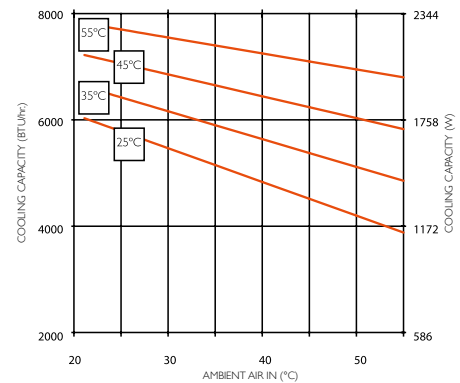
MODEL MVOUT1848 6000 BTU/hr. (1758 W)



Capacity Curves 50 Hz



Capacity Curves 60 Hz



REFERENCES MODEL MVOUT1848 - OUTDOOR COOLING UNITS - UL TROPIC SERIES

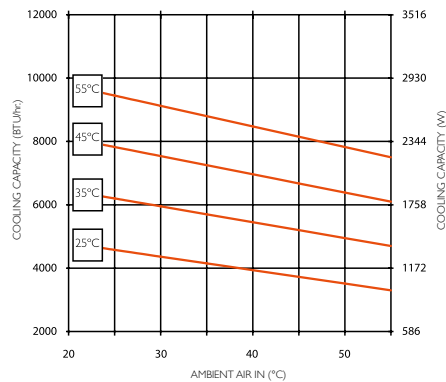
REFERENCES AND MODELS			
Model with heat	MVOUT1848BULH	MVOUT1848AULH	MVOUT1848DULH
Model / SST / Corrosion / 4X	MVOUT1848BUL4X	MVOUT1848AUL4X	-
COOLING PERFORMANCE			
Nominal BTU/Hr.	6310/6680	6520/6770	6520/6770
Nominal Watts	1848/1958	1910/1985	1910/1985
At (55°C/55°C) - BTU/Hr. (50/60 Hz)	6400/6680	6520/6774	6520/6774
At (55°C/55°C) - W (50/60 Hz)	1875/1957	1910/1985	1910/1985
At (35°C/35°C) - BTU/Hr. (50/60 Hz)	5500/5900	5461/5864	5461/5864
At (35°C/35°C) - W (50/60 Hz)	1611/1729	1600/1713	1600/1713
Refrigerant	R-134A	R-134A	R-134A
Refrigerant charge (grams)	850	850	850
Operating temperature range - Maximum (°C)	+55	+55	+55
Operating temperature range - Minimum (°C)	-40	-40	-40
Airflow at 0 static pressure - Internal loop 50 Hz (CFM / m3/hr.)	310/527	310/527	310/527
Airflow at 0 static pressure - External loop 50 Hz (CFM / m3/hr.)	345/586	345/586	345/586
Airflow at 0 static pressure - Internal loop 60 Hz (CFM / m3/hr.)	320/544	320/544	320/544
Airflow at 0 static pressure - External loop 60 Hz (CFM / m3/hr.)	355/603	355/603	355/603
Max. heater W	1000	1000	1000
ELECTRICAL DATA			
Rated voltage	115	230	460V 1PH
Frequency (Hz)	50/60	50/60	50/60
Operating range	+/- 10%	+/- 10%	+/- 10%
Max. power consumption (W at 50/60 Hz)	1058/989	1012/874	1104/966
Max. nominal current (A at 50/60 Hz)	9.2/8.6	4.4/3.8	2.4/2.1
Starting current (A)	57.2	27	14
DIMENSIONS			
Height (mm)	1092	1092	1092
Width (mm)	400	400	400
Depth (mm)	279	279	279
Weight (kg)	57	57	57

OUTDOOR COOLING UNITS UL TROPIC SERIES

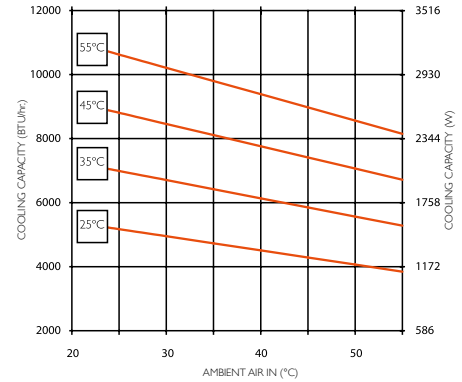
MODEL MVOUT2310 8000 BTU/hr. (2344 W)



Capacity Curves 50 Hz



Capacity Curves 60 Hz



REFERENCES MODEL MVOUT2310 - OUTDOOR COOLING UNITS - UL TROPIC SERIES

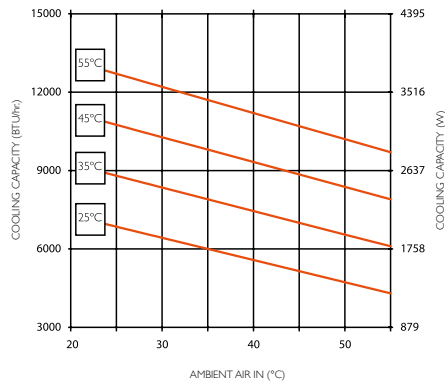
REFERENCES AND MODELS			
Model with heat	MVOUT2310BULH	MVOUT2160AULH	MVOUT2160DULH
Model / SST / Corrosion / 4X	MVOUT2310BUL4XH	MVOUT2160AUL4XH	MVOUT2160DUL4X
COOLING PERFORMANCE			
Nominal BTU/Hr.	7900/8600	7400/8200	7400/8200
Nominal Watts	2310/2500	2160/2400	2160/2400
At (55°C/55°C) - BTU/Hr. (50/60 Hz)	7937/8629	7484/8215	7484/8215
At (55°C/55°C) - W (50/60 Hz)	2326/2528	2193/2407	2193/2407
At (35°C/35°C) - BTU/Hr. (50/60 Hz)	6401/7100	5940/6705	5940/6705
At (35°C/35°C) - W (50/60 Hz)	1875/2080	1740/1965	1740/1965
Refrigerant	R-134A	R-134A	R-134A
Refrigerant charge (grams)	1022	1022	1022
Operating temperature range - Maximum (°C)	+55	+55	+55
Operating temperature range - Minimum (°C)	-40	-40	-40
Airflow at 0 static pressure - Internal loop 50 Hz (CFM / m3/hr.)	273/464	273/464	273/464
Airflow at 0 static pressure - External loop 50 Hz (CFM / m3/hr.)	310/527	310/527	310/527
Airflow at 0 static pressure - Internal loop 60 Hz (CFM / m3/hr.)	290/493	290/493	290/493
Airflow at 0 static pressure - External loop 60 Hz (CFM / m3/hr.)	315/535	315/535	315/535
Max. heater W	1000	1000	1000
ELECTRICAL DATA			
Rated voltage	115	230	460V 1PH
Frequency (Hz)	50/60	50/60	50/60
Operating range	+/- 10%	+/- 10%	+/- 10%
Max. power consumption (W at 50/60 Hz)	1196/1288	1196/1242	1334/1380
Max. nominal current (A at 50/60 Hz)	10.4/11.2	5.2/5.4	2.9/3.0
Starting current (A)	48.3	27	14
DIMENSIONS			
Height (mm)	1092	1092	1092
Width (mm)	400	400	400
Depth (mm)	279	279	279
Weight (kg)	57	57	57

OUTDOOR COOLING UNITS **UL TROPIC SERIES**

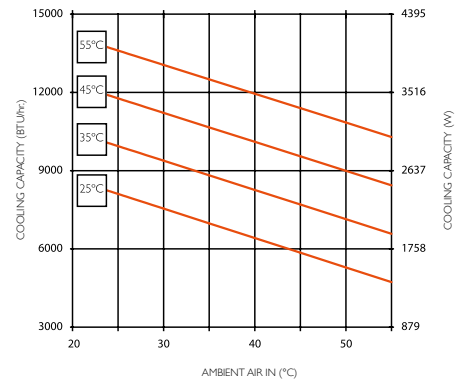
MODEL MVOUT283 I/MVOUT2957 10000 BTU/hr. (2930 W)



Capacity Curves 50 Hz



Capacity Curves 60 Hz



REFERENCES MODELS MVOUT283 I/MVOUT2957 - OUTDOOR COOLING UNITS - UL TROPIC SERIES

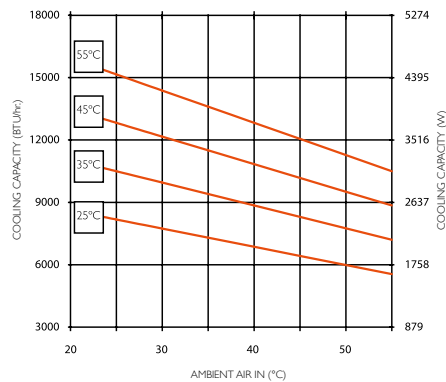
REFERENCES AND MODELS			
Model without heat	-	-	MVOUT283 I DUL
Model with heat	MVOUT283 I BUL H	MVOUT283 I AUL H	-
Model / SST / Corrosion / 4X	-	-	MVOUT2957 DUL 4X
Model / SST / Corrosion / 4X / Heater	MVOUT283 I BUL 4X H	MVOUT2957 AUL 4X H	-
COOLING PERFORMANCE			
Nominal BTU/Hr.	9760/10300	10100/10500	10100/10500
Nominal Watts	2831/3016	2957/3075	2957/3075
At (55°C/55°C) - BTU/Hr. (50/60 Hz)	9667/10290	10039/10669	10039/10669
At (55°C/55°C) - W (50/60 Hz)	2832/3015	2941/3126	2941/3126
At (35°C/35°C) - BTU/Hr. (50/60 Hz)	7663/8397	8458/8837	8458/8837
At (35°C/35°C) - W (50/60 Hz)	2245/2460	2478/2589	2478/2589
Refrigerant	R-134A	R-134A	R-134A
Refrigerant charge (grams)	907	907	907
Operating temperature range - Maximum (°C)	+55	+55	+55
Operating temperature range - Minimum (°C)	-40	-40	-40
Airflow at 0 static pressure - Internal loop 50 Hz (CFM / m3/hr.)	272/462	320/544	320/544
Airflow at 0 static pressure - External loop 50 Hz (CFM / m3/hr.)	510/866	586/965	586/965
Airflow at 0 static pressure - Internal loop 60 Hz (CFM / m3/hr.)	290/493	330/561	330/561
Airflow at 0 static pressure - External loop 60 Hz (CFM / m3/hr.)	565/960	636/1081	636/1081
Max. heater W	1000	1000	1000
ELECTRICAL DATA			
Rated voltage	115	230	460V 1PH
Frequency (Hz)	50/60	50/60	50/60
Operating range	+/- 10%	+/- 10%	+/- 10%
Max. power consumption (W at 50/60 Hz)	1828.5/2288.5	2070	1334/1380
Max. nominal current (A at 50/60 Hz)	15.9/19.9	9	5
Starting current (A)	57	38	20
DIMENSIONS			
Height (mm)	1092	1092	1092
Width (mm)	400	400	400
Depth (mm)	279	279	279
Weight (kg)	57	57	57

OUTDOOR COOLING UNITS UL TROPIC SERIES

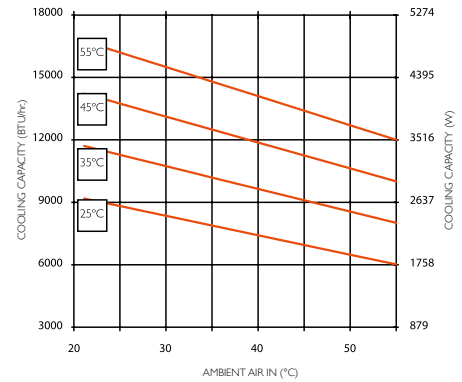
MODEL MVOUT3223 12000 BTU/hr. (3516 W)



Capacity Curves 50 Hz



Capacity Curves 60 Hz



REFERENCES MODEL MVOUT3223 - OUTDOOR COOLING UNITS - UL TROPIC SERIES

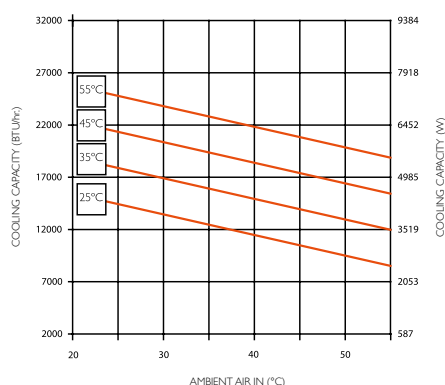
REFERENCES AND MODELS	
Model with heat	MVOUT3223AULH
Model / SST / Corrosion / 4X / Heater	MVOUT3223AUL4xH
COOLING PERFORMANCE	
Nominal BTU/Hr.	11000/12000
Nominal Watts	3223/3516
At (55°C/55°C) - BTU/Hr. (50/60 Hz)	10030/12000
At (55°C/55°C) - W (50/60 Hz)	2939/3516
At (35°C/35°C) - BTU/Hr. (50/60 Hz)	9300/10050
At (35°C/35°C) - W (50/60 Hz)	2725/2945
Refrigerant	R-134A
Refrigerant charge (grams)	1300
Operating temperature range - Maximum (°C)	+55
Operating temperature range - Minimum (°C)	-40
Airflow at 0 static pressure - Internal loop 50 Hz (CFM / m3/hr.)	300/510
Airflow at 0 static pressure - External loop 50 Hz (CFM / m3/hr.)	520/883
Airflow at 0 static pressure - Internal loop 60 Hz (CFM / m3/hr.)	368/626
Airflow at 0 static pressure - External loop 60 Hz (CFM / m3/hr.)	625/1062
Max. heater W	1500
ELECTRICAL DATA	
Rated voltage	220/230
Frequency (Hz)	50/60
Operating range	+/- 10%
Max. power consumption (W at 50/60 Hz)	1804/2139
Max. nominal current (A at 50/60 Hz)	8.2/9.3
Starting current (A)	38
DIMENSIONS	
Height (mm)	1270
Width (mm)	483
Depth (mm)	281
Weight (kg)	75

OUTDOOR COOLING UNITS **UL TROPIC SERIES**

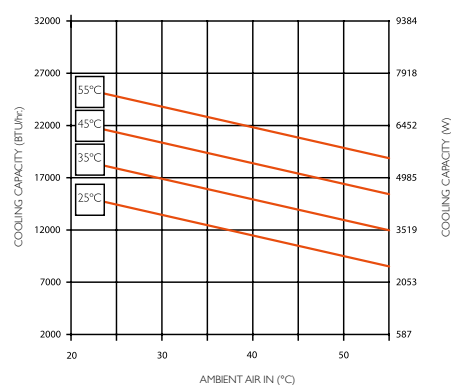
MODEL MVOOUT5392 19000 BTU/hr. (5567 W)



Capacity Curves 50 Hz



Capacity Curves 60 Hz



REFERENCES MODEL MVOOUT5392 - OUTDOOR COOLING UNITS - UL TROPIC SERIES

REFERENCES AND MODELS

Model without heat	-	MVOOUT5392DUL
Model with heat	MVOOUT5392AUL.H	-
Model / SST / Corrosion / 4X / Heater	MVOOUT5392AUL4xH	-

COOLING PERFORMANCE

Nominal BTU/Hr.	18400/20400	18400/20400
Nominal Watts	5392/5978	5392/5978
At (55°C/55°C) - BTU/Hr. (50/60 Hz)	18488/20431	18488/20431
At (55°C/55°C) - W (50/60 Hz)	5418/5987	5418/5987
At (35°C/35°C) - BTU/Hr. (50/60 Hz)	15833/18087	15833/18087
At (35°C/35°C) - W (50/60 Hz)	4640/5300	4640/5300
Refrigerant	407C	407C
Refrigerant charge (grams)	1191	1191
Operating temperature range - Maximum (°C)	+55	+55
Operating temperature range - Minimum (°C)	-40	-40
Airflow at 0 static pressure - Internal loop 50 Hz (CFM / m3/hr.)	449/763	449/763
Airflow at 0 static pressure - External loop 50 Hz (CFM / m3/hr.)	1204/2046	1204/2046
Airflow at 0 static pressure - Internal loop 60 Hz (CFM / m3/hr.)	519/882	519/882
Airflow at 0 static pressure - External loop 60 Hz (CFM / m3/hr.)	1300/2209	1300/2209
Max. heater W	3000	3000

ELECTRICAL DATA

Rated voltage	230	460V 1PH
Frequency (Hz)	50/60	50/60
Operating range	+/- 10%	+/- 10%
Max. power consumption (W at 50/60 Hz)	3105/3703	3404/4094
Max. nominal current (A at 50/60 Hz)	13.5/16.1	7.4/8.9
Starting current (A)	54	28

DIMENSIONS

Height (mm)	1346.2	1346.2
Width (mm)	533.4	533.4
Depth (mm)	330.2	330.2
Weight (kg)	90	108

OTHER ELEMENTS OF VENTILATION AND CLIMATE CONTROL

DELVALLE, EXPERTS IN VENTILATION AND CLIMATE CONTROL

One solution for every need. Our engineers equipment will find the best climate control installation and get a better performance and greater energy and cost savings



AIR
CONDITIONERS



THERMOELECTRIC
COOLERS

TEMPERATURE CONTROL



FILTER FANS



RESISTANCE HEATERS



FOR MORE INFORMATION CLICK HERE

CUSTOMIZED ENCLOSURE SOLUTIONS DELVALLE

Delvalle has more than 45 years of experience using the latest technology to implement and obtain the most innovative products on offer to all our customers. Delvalle is an ideal partner, combining an advanced and wide range of products at very competitive prices.

The customized manufacture of all electrical enclosures and cabinets Delvallebox is carry out with the most advanced technical methods and with the precision and consciousness of a craftsman. This makes the difference from competitors and is the best way to gain our customers' trust.

In Delvallebox we bear in mind that customers perceive the quality very clearly. In every product (for instance, in the cabinets here presented) safety and useful solutions are what customers value most.



STAINLESS STEEL INDUSTRIAL ENCLOSURES



OUTDOOR ELECTRICAL ENCLOSURES



GLOBAL ELECTRICAL SOLUTIONS FOR URBAN AREAS



GALVANIZED STEEL ELECTRICAL ENCLOSURES

ATEX INDUSTRIAL ENCLOSURES



SLOPED ROOF
ENCLOSURES - HYGIENIC



INDUSTRIAL ENCLOSURES IP66, IP67, IP68 AND IP69K

Buy direct from manufacturer of custom made IP66, IP67, IP68 and IP69K heavy duty industrial and waterproof electrical enclosures AISI 304L and 316L made by standard IEC 60529. Delvalle has tested all sizes and dimensions of waterproof enclosures according to EN 60529:2018. All weather resistant enclosures are more than simply rainproof, they meet a minimum of Nema 4X and IP66, IP67, IP68 and IP69k requirements to ensure your electronics are protected. From Junction boxes to industrial enclosures, Delvalle weatherproof enclosures offer a wide range of sizes and styles to keep your project waterproof.



CLIMATE CONTROL COOLING FOR ENCLOSURES



CABLE GLANDS FOR
ELECTRICAL ENCLOSURES





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