

MOBILE/OUTDOOR TEMPERATURE CONTROL SYSTEMS

SPECIFICATIONS

Rev. 4/23/08

MODEL #	TCU-1.5A						
PN: TCU-1.5A-xx		-01	-02	-03	-04	-05	-06
Description		Indoor/Outdoor Operation, High Volt, Standard Ambient Temp. Range	Indoor/Outdoor Operation, Low Volt, Standard Ambient Temp. Range	Indoor/Outdoor Operation, High Volt, High Ambient Temp. Range	Indoor/Outdoor Operation, Low Volt, High Ambient Temp. Range	Indoor/Outdoor Operation, High Volt, Ultra-High Ambient Temp. Range	Indoor/Outdoor Operation, Low Volt, Ultra-High Ambient Temp. Range
Max. Recommended Ambient Operating Temperature:	°F	104	104	120	120	131	131
Rated System Capacity ^{1,2} :							
Cooling:	(KW)	4.5	4.5	4.5	4.5	4.5	4.5
Standard Internal Heaters:	(KW)	5.0	4.0	5.0	5.0	5.0	5.0
Optional In-Line Heaters:	(kW)	10.0	10.0	10.0	10.0	10.0	10.0
Compressor:	HP	1.5	1.5	1.5	1.5	1.5	1.5
	Type ³	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll
Condensing:	Medium	Air	Air	Air	Air	Air	Air
Refrigerant:	Type	R-134A	R-134A	R-134A	R-134A	R-134A	R-134A
Ref. Control. Circuit ⁴ :	Capacity Control	0-100%	0-100%	0-100%	0-100%	0-100%	0-100%
Process Pump ⁵ :	Hp	1 HP	1 HP	1 HP	1 HP	1 HP	1 HP
	GPM	12 GPM-60 HZ 8 GPM-50 HZ	12 GPM-60 HZ 8 GPM-50 HZ	12 GPM-60 HZ 8 GPM-50 HZ	12 GPM-60 HZ 8 GPM-50 HZ	12 GPM-60 HZ 8 GPM-50 HZ	12 GPM-60 HZ 8 GPM-50 HZ
	PSI	90 PSI-60 HZ 90 PSI-50 HZ	90 PSI-60 HZ 90 PSI-50 HZ	90 PSI-60 HZ 90 PSI-50 HZ	90 PSI-60 HZ 90 PSI-50 HZ	90 PSI-60 HZ 90 PSI-50 HZ	90 PSI-60 HZ 90 PSI-50 HZ
	TYPE	TURBINE	TURBINE	TURBINE	TURBINE	TURBINE	TURBINE
MNPT Connection Size:	(Inches)	1	1	1	1	1	1
Reservoir Cap.:	Gallons	4	4	4	4	4	4
Fluid Temp. Range ⁶ (LWT):	°F	15 °F to 104 °F	15 °F to 104 °F	15 °F to 104 °F	15 °F to 104 °F	15 °F to 104 °F	15 °F to 104 °F
Recommended Coolant:		Contact Factory	Contact Factory	Contact Factory	Contact Factory	Contact Factory	Contact Factory
Temp. Stability ⁷	°F	+/- 0.2 °F	+/- 0.2 °F	+/- 0.2 °F	+/- 0.2 °F	+/- 0.2 °F	+/- 0.2 °F
Construction (Wetted):	Materials	Non-Ferrous	Non-Ferrous	Non-Ferrous	Non-Ferrous	Non-Ferrous	Non-Ferrous
Operating Voltage Range:	Voltage	424-495/3/60 Hz 380-442/3/50 Hz	203-237/3/60 Hz 195-227-3/50 Hz	424-495/3/60 Hz 380-442/3/50 Hz	203-237/3/60 Hz 195-227-3/50 Hz	424-495/3/60 Hz 380-442/3/50 Hz	203-237/3/60 Hz 195-227-3/50 Hz
KVA at Specified Voltage:		495V/60 Hz 11 KVA 442V/50 Hz 10 KVA	237V/60 Hz 10 KVA 227V/50 Hz 10 KVA	495V/60 Hz 11 KVA 442V/50 Hz 10 KVA	237V/60 Hz 10 KVA 227V/50 Hz 10 KVA	495V/60 Hz 11 KVA 442V/50 Hz 10 KVA	237V/60 Hz 10 KVA 227V/50 Hz 10 KVA
Dimensions ⁹	Drawing#	302131	302131	302170	302170	302170	302170
Weight (Pounds)	Base Unit	575	575	575	575	575	575
	Shipping Weight	CF	CF	CF	CF	CF	CF
Price	USD	\$15,080	\$15,080	\$16,230	\$16,230	\$22,750	\$22,750

Specifications are subject to change without notice or liability. (1) Capacities at 55°F fluid set point, 90°F ambient, and are based on circulating water on 60 Hz operation. (2) Capacities may be +/- 5% as reserved by compressor manufacturer. (3) Scroll compressor technology used on this model. (4) Features OPTI TEMP patented "Zero to Full Load" capacity refrigeration control circuit. (5) Pump pressure is at pump outlet. (6) Standard operating fluid temperature range with internal heaters 15°F to 104°F. Appropriate glycol mixture must be used at fluid temperatures below 48°F and ambient temperatures below freezing. (7) Control is micro processor based digital P.I.D. control. (8) Disconnects by others. (9) Dimensions are approximate.

MOBILE/OUTDOOR TEMPERATURE CONTROL SYSTEMS

SPECIFICATIONS

Rev. 4/23/08

MODEL #	TCU-3.0A						
PN: TCU-3.0A-xx		-01	-02	-03	-04	-05	-06
Description		Indoor/Outdoor Operation, High Volt, Standard Ambient Temp. Range	Indoor/Outdoor Operation, Low Volt, Standard Ambient Temp. Range	Indoor/Outdoor Operation, High Volt, High Ambient Temp. Range	Indoor/Outdoor Operation, Low Volt, High Ambient Temp. Range	Indoor/Outdoor Operation, High Volt, Ultra-High Ambient Temp. Range	Indoor/Outdoor Operation, Low Volt, Ultra-High Ambient Temp. Range
Max. Recommended Ambient Operating Temperature:	°F	104	104	120	120	131	131
Rated System Capacity ^{1,2} :							
Cooling:	(KW)	9.0	9.0	9.0	9.0	9.0	9.0
Standard Internal Heaters:	(KW)	5.0	4.0	5.0	5.0	5.0	5.0
Optional In-Line Heaters:	(kW)	10.0	10.0	10.0	10.0	10.0	10.0
Compressor:	HP	3.5	3.5	3.5	3.5	3.5	3.5
	Type ³	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll
Condensing:	Medium	Air	Air	Air	Air	Air	Air
Refrigerant:	Type	R-134A	R-134A	R-134A	R-134A	R-134A	R-134A
Ref. Control. Circuit ⁴ :	Capacity Control	0-100%	0-100%	0-100%	0-100%	0-100%	0-100%
Process Pump ⁵ :	Hp	3 HP	3 HP	3 HP	3 HP	3 HP	3 HP
	GPM	21 GPM-60 HZ 17 GPM-50 HZ	21 GPM-60 HZ 17 GPM-50 HZ	21 GPM-60 HZ 17 GPM-50 HZ	21 GPM-60 HZ 17 GPM-50 HZ	21 GPM-60 HZ 17 GPM-50 HZ	21 GPM-60 HZ 17 GPM-50 HZ
	PSI	90 PSI-60 HZ 90 PSI-50 HZ	90 PSI-60 HZ 90 PSI-50 HZ	90 PSI-60 HZ 90 PSI-50 HZ	90 PSI-60 HZ 90 PSI-50 HZ	90 PSI-60 HZ 90 PSI-50 HZ	90 PSI-60 HZ 90 PSI-50 HZ
	TYPE	TURBINE	TURBINE	TURBINE	TURBINE	TURBINE	TURBINE
MNPT Connection Size:	(Inches)	1	1	1	1	1	1
Reservoir Cap.:	Gallons	4	4	4	4	4	4
Fluid Temp. Range ⁶ (LWT):	°F	15 °F to 104 °F	15 °F to 104 °F	15 °F to 104 °F	15 °F to 104 °F	15 °F to 104 °F	15 °F to 104 °F
Recommended Coolant:		Contact Factory	Contact Factory	Contact Factory	Contact Factory	Contact Factory	Contact Factory
Temp. Stability ⁷	°F	+/- 0.2 °F	+/- 0.2 °F	+/- 0.2 °F	+/- 0.2 °F	+/- 0.2 °F	+/- 0.2 °F
Construction (Wetted):	Materials	Non-Ferrous	Non-Ferrous	Non-Ferrous	Non-Ferrous	Non-Ferrous	Non-Ferrous
Operating Voltage Range:	Voltage	424-495/3/60 Hz 380-442/3/50 Hz	203-237/3/60 Hz 195-227-3/50 Hz	424-495/3/60 Hz 380-442/3/50 Hz	203-237/3/60 Hz 195-227-3/50 Hz	424-495/3/60 Hz 380-442/3/50 Hz	203-237/3/60 Hz 195-227-3/50 Hz
KVA at Specified Voltage:		495V/60 Hz 15 KVA 442V/50 Hz 14 KVA	237V/60 Hz 15 KVA 227V/50 Hz 14 KVA	495V/60 Hz 15 KVA 442V/50 Hz 14 KVA	237V/60 Hz 15 KVA 227V/50 Hz 14 KVA	495V/60 Hz 15 KVA 442V/50 Hz 14 KVA	237V/60 Hz 15 KVA 227V/50 Hz 14 KVA
Dimensions ⁹	Drawing#	302170	302170	302180	302180	302180	302180
Weight (Pounds)	Base Unit	575	575	575	575	575	575
	Shipping Weight	CF	CF	CF	CF	CF	CF
Price	USD	\$16,235	\$16,235	\$21,375	\$21,375	\$23,325	\$23,325

Specifications are subject to change without notice or liability. (1) Capacities at 55°F fluid set point, 90°F ambient, and are based on circulating water on 60 Hz operation. (2) Capacities may be +/- 5% as reserved by compressor manufacturer. (3) Scroll compressor technology used on this model. (4) Features OPTI TEMP patented "Zero to Full Load" capacity refrigeration control circuit. (5) Pump pressure is at pump outlet. (6) Standard operating fluid temperature range with internal heaters 15°F to 104°F. Appropriate glycol mixture must be used at fluid temperatures below 48°F and ambient temperatures below freezing. (7) Control is micro processor based digital P.I.D. control. (8) Disconnects by others. (9) Dimensions are approximate.