


Job Price Summary

					
<p>Ohio State Term Schedule Discount Pricelist</p>					
<p>updated 1/20/2011</p>					
Product Code	Product/Item	Description	Tons	Dollars Per Ton (net)	
1	664 Air-Cooled Chiller, Scroll Compressors (CGAM)				
		<20 Ton CGAM> Air-Cooled Chiller, Scroll Compressors	20.0	\$857	
		<26 Ton CGAM> Air-Cooled Chiller, Scroll Compressors	26.0	\$759	
		<30 Ton CGAM> Air-Cooled Chiller, Scroll Compressors	30.0	\$726	
		<35 Ton CGAM> Air-Cooled Chiller, Scroll Compressors	35.0	\$676	
		<40 Ton CGAM> Air-Cooled Chiller, Scroll Compressors	40.0	\$624	
		<52 Ton CGAM> Air-Cooled Chiller, Scroll Compressors	52.0	\$555	
		<60 Ton CGAM> Air-Cooled Chiller, Scroll Compressors	60.0	\$527	
		<70 Ton CGAM> Air-Cooled Chiller, Scroll Compressors	70.0	\$494	
		<80 Ton CGAM> Air-Cooled Chiller, Scroll Compressors	80.0	\$472	
		<90 Ton CGAM> Air-Cooled Chiller, Scroll Compressors	90.0	\$464	
		<100 Ton CGAM> Air-Cooled Chiller, Scroll Compressors	100.0	\$445	
		<110 Ton CGAM> Air-Cooled Chiller, Scroll Compressors	110.0	\$437	
		<120 Ton CGAM> Air-Cooled Chiller, Scroll Compressors	120.0	\$429	
		<130 Ton CGAM> Air-Cooled Chiller, Scroll Compressors	130.0	\$429	
2	154 Air-Cooled Series R™ Compressors (RTAC)				
		<RTAC-140 Ton> Air-Cooled Series R(TM) (RTAC)	140.0	\$445	
		<RTAC-155 Ton> Air-Cooled Series R(TM) (RTAC)	155.0	\$440	
		<RTAC-170 Ton> Air-Cooled Series R(TM) (RTAC)	170.0	\$434	
		<RTAC-185 Ton> Air-Cooled Series R(TM) (RTAC)	185.0	\$419	
		<RTAC-200 Ton> Air-Cooled Series R(TM) (RTAC)	200.0	\$413	
		<RTAC-225 Ton> Air-Cooled Series R(TM) (RTAC)	225.0	\$395	
		<RTAC-250 Ton> Air-Cooled Series R(TM) (RTAC)	250.0	\$377	
		<RTAC-275 Ton> Air-Cooled Series R(TM) (RTAC)	275.0	\$408	
		<RTAC-300 Ton> Air-Cooled Series R(TM) (RTAC)	300.0	\$414	
		<RTAC-350 Ton> Air-Cooled Series R(TM) (RTAC)	350.0	\$386	
		<RTAC-400 Ton> Air-Cooled Series R(TM) (RTAC)	400.0	\$396	
		<RTAC-450 Ton> Air-Cooled Series R(TM) (RTAC)	450.0	\$380	
		<RTAC-500 Ton> Air-Cooled Series R(TM) (RTAC)	500.0	\$364	
3	355 (703) Series R(TM) 70-250 Ton Water-Cooled Chiller (RTWD)				
		<RTWD-80 Std> RTWD Series R(TM) 70-250 Ton Water-Cool	80.0	\$473	
		<RTWD-80 High> RTWD Series R(TM) 70-250 Ton Water-Cool	80.0	\$529	
		<RTWD-90 Std> RTWD Series R(TM) 70-250 Ton Water-Cool	90.0	\$432	
		<RTWD-90 High> RTWD Series R(TM) 70-250 Ton Water-Cool	90.0	\$496	
		<RTWD-100 Std> RTWD Series R(TM) 70-250 Ton Water-Cool	100.0	\$425	
		<RTWD-100 High> RTWD Series R(TM) 70-250 Ton Water-Cool	100.0	\$492	
		<RTWD-110 Std> RTWD Series R(TM) 70-250 Ton Water-Cool	110.0	\$419	
		<RTWD-110 High> RTWD Series R(TM) 70-250 Ton Water-Cool	110.0	\$487	
		<RTWD-120 Std> RTWD Series R(TM) 70-250 Ton Water-Cool	120.0	\$412	
		<RTWD-120 High> RTWD Series R(TM) 70-250 Ton Water-Cool	120.0	\$469	
		<RTWD-130 Std> RTWD Series R(TM) 70-250 Ton Water-Cool	130.0	\$406	
		<RTWD-130 High> RTWD Series R(TM) 70-250 Ton Water-Cool	130.0	\$459	
		<RTWD-140 Std> RTWD Series R(TM) 70-250 Ton Water-Cool	140.0	\$395	
		<RTWD-150 High> RTWD Series R(TM) 70-250 Ton Water-Cool	150.0	\$418	
		<RTWD-150 Prem> RTWD Series R(TM) 70-250 Ton Water-Cool	150.0	\$472	
		<RTWD-160 High> RTWD Series R(TM) 70-250 Ton Water-Cool	160.0	\$404	
		<RTWD-160 Prem> RTWD Series R(TM) 70-250 Ton Water-Cool	160.0	\$456	
		<RTWD-180 High> RTWD Series R(TM) 70-250 Ton Water-Cool	180.0	\$370	
		<RTWD-180 Prem> RTWD Series R(TM) 70-250 Ton Water-Cool	180.0	\$421	
		<RTWD-200 High> RTWD Series R(TM) 70-250 Ton Water-Cool	200.0	\$353	
		<RTWD-200 Prem> RTWD Series R(TM) 70-250 Ton Water-Cool	200.0	\$403	
		<RTWD-220 High> RTWD Series R(TM) 70-250 Ton Water-Cool	220.0	\$340	
		<RTWD-250 High> RTWD Series R(TM) 70-250 Ton Water-Cool	250.0	\$315	

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updated 1/20/2011				
Product Code	Product/Item	Description	Tons	Dollars Per Ton (net)
4	153	Water-Cooled Series R™ (RTHD)		
		<.683HD-263.7> Water-Cooled Series R(TM) (RTHD)	263.7	\$293
		<.662HD-266.5> Water-Cooled Series R(TM) (RTHD)	266.5	\$297
		<.67HD-270> Water-Cooled Series R(TM) (RTHD)	270.0	\$284
		<.65HD-272.4> Water-Cooled Series R(TM) (RTHD)	272.4	\$289
		<.604HD-279.9> Water-Cooled Series R(TM) (RTHD)	279.9	\$294
		<.62HD-282.7> Water-Cooled Series R(TM) (RTHD)	282.7	\$353
		<.595HD-284.7> Water-Cooled Series R(TM) (RTHD)	284.7	\$287
		<.676HD-297.8> Water-Cooled Series R(TM) (RTHD)	297.8	\$282
		<.664HD-304.6> Water-Cooled Series R(TM) (RTHD)	304.6	\$273
		<.627HD-312.8> Water-Cooled Series R(TM) (RTHD)	312.8	\$282
		<.583HD-326.3> Water-Cooled Series R(TM) (RTHD)	326.3	\$287
		<.575HD-331.8> Water-Cooled Series R(TM) (RTHD)	331.8	\$280
		<.611HD-389.2> Water-Cooled Series R(TM) (RTHD)	389.2	\$255
		<.58HD-398.8> Water-Cooled Series R(TM) (RTHD)	398.8	\$265
		<.576HD-401.8> Water-Cooled Series R(TM) (RTHD)	401.8	\$261
		<.613HD-415.5> Water-Cooled Series R(TM) (RTHD)	415.5	\$258
		<.604HD-422.4> Water-Cooled Series R(TM) (RTHD)	422.4	\$252
		<.574HD-434.3> Water-Cooled Series R(TM) (RTHD)	434.3	\$259
		<.571HD-437.3> Water-Cooled Series R(TM) (RTHD)	437.3	\$255
5	355 (703)	Series R(TM) 70-250 Ton Water-Cooled Chiller (RTUD)		
		<RTUD-80> RTWD Series R(TM) 70-250 Ton Water-Cool	80.0	\$625
		<RTUD-90> RTWD Series R(TM) 70-250 Ton Water-Cool	90.0	\$615
		<RTUD-100> RTWD Series R(TM) 70-250 Ton Water-Cool	100.0	\$621
		<RTUD-110> RTWD Series R(TM) 70-250 Ton Water-Cool	110.0	\$605
		<RTUD-120> RTWD Series R(TM) 70-250 Ton Water-Cool	120.0	\$598
		<RTUD-130> RTWD Series R(TM) 70-250 Ton Water-Cool	130.0	\$580
		<RTUD-150> RTWD Series R(TM) 70-250 Ton Water-Cool	150.0	\$511
		<RTUD-160> RTWD Series R(TM) 70-250 Ton Water-Cool	160.0	\$493
		<RTUD-180> RTWD Series R(TM) 70-250 Ton Water-Cool	180.0	\$464
		<RTUD-200> RTWD Series R(TM) 70-250 Ton Water-Cool	200.0	\$449
		<RTUD-220> RTWD Series R(TM) 70-250 Ton Water-Cool	220.0	\$437
		<RTUD-250> RTWD Series R(TM) 70-250 Ton Water-Cool	250.0	\$410
6	514	3-10 Ton R410A PKGD Unitary Gas/Electric Rooftop		
		<3 Ton> 3 Ton R410A PKGD Unitary Gas/Electric	3.0	\$1,292
		<4 Ton> 4 Ton R410A PKGD Unitary Gas/Electric	4.0	\$1,072
		<5 Ton> 5 Ton R410A PKGD Unitary Gas/Electric	5.0	\$942
		<6 Ton> 6 Ton R410A PKGD Unitary Gas/Electric	6.0	\$889
		<7 Ton> 7.5 Ton R410A PKGD Unitary Gas/Electric	7.5	\$857
		<8.5 Ton> 8.5 Ton R410A PKGD Unitary Gas/Electric	8.5	\$824
		<10 Ton> 10 Ton R410A PKGD Unitary Gas/Electric	10.0	\$780
7	382 (467)	Voyager II 12 1/2 -25 Ton Packaged Unitary Gas/Elec Rooftop -		
		<12.5 Ton> 12.5 Ton Packaged Unitary Gas/Elec	12.5	\$704
		<15 Ton> 15 Ton Packaged Unitary Gas/Elec	15.0	\$669
		<17.5 Ton> 17.5 Ton Packaged Unitary Gas/Elec	17.5	\$695
		<20 Ton> 20 Ton Packaged Unitary Gas/Elec	20.0	\$678
		<25 Ton> 25 Ton Packaged Unitary Gas/Elec	25.0	\$621
8	382	Voyager III 27 1/2-50 Ton Packaged Commercial Rooftop		
		<27.5 Ton> 27 1/2 Ton Packaged Commercial Roofto	27.5	\$750
		<30 Ton> 30 Ton Packaged Commercial Roofto	30.0	\$721
		<35 Ton> 35 Ton Packaged Commercial Roofto	35.0	\$669
		<40 Ton> 40 Ton Packaged Commercial Roofto	40.0	\$617
		<50 Ton> 50 Ton Packaged Commercial Roofto	50.0	\$563

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	Product Code	Product/Item	Description	Tons	Dollars Per Ton (net)
14	151	Outdoor T-Series Climate Changer air handler			
			<3-1500> Outdoor T-Series Climate Changer	1500	\$10.39
			<6-3000> Outdoor T-Series Climate Changer	3000	\$6.36
			<8-4000> Outdoor T-Series Climate Changer	4000	\$5.14
			<10-5000> Outdoor T-Series Climate Changer	5000	\$4.77
			<12-6000> Outdoor T-Series Climate Changer	6000	\$4.22
			<14-7000> Outdoor T-Series Climate Changer	7000	\$3.73
			<17-8500> Outdoor T-Series Climate Changer	8500	\$3.14
			<21-10500> Outdoor T-Series Climate Changer	10500	\$2.80
			<25-12500> Outdoor T-Series Climate Changer	12500	\$2.54
			<30-15000> Outdoor T-Series Climate Changer	15000	\$2.31
			<35-17500> Outdoor T-Series Climate Changer	17500	\$2.17
			<40-20000> Outdoor T-Series Climate Changer	20000	\$2.00
			<50-25000> Outdoor T-Series Climate Changer	25000	\$1.82
			<57-28500> Outdoor T-Series Climate Changer	28500	\$1.74
			<66-33000> Outdoor T-Series Climate Changer	33000	\$1.73
			<80-40000> Outdoor T-Series Climate Changer	40000	\$1.63
			<100-50000> Outdoor T-Series Climate Changer	50000	\$1.67
15	Calmac	Cooling Towers			
			Description	Tons	\$/Ton
			AT-14-99	100	\$256
			AT-19-98	200	\$187
			AT-19-911	300	\$170
			AT-19-914	400	\$157
			AT-112-912	500	\$147
			AT-112-318	600	\$149
			AT-112-718	700	\$146
			AT-212-128	800	\$148
			AT-212-628	1000	\$143
			AT-224-418	1200	\$136
			AT-212-736	1400	\$131
			AT-424-424	1600	\$135
16	427	Unitary Split Systems			
			Description	Tons	\$/Ton
			<1.5 Ton CU> 1.5 Ton Unitary Split Systems	1.5	\$725
			<2 Ton CU> 2 Ton Unitary Split Systems	2.0	\$565
			<2.5 Ton CU> 2.5 Ton Unitary Split Systems	2.5	\$488
			<3 Ton Cu> 3 Ton Unitary Split Systems	3.0	\$436
			<3.5 Ton CU> 3.5 Ton Unitary Split Systems	3.5	\$401
			<4 Ton CU> 4 Ton Unitary Split Systems	4.0	\$378
			<5 Ton CU> 5 Ton Unitary Split Systems	5.0	\$345
	419		<6 Ton CU> 6 Ton Unitary Split Systems	6.0	\$390
			<7.5 Ton CU> 7.5 Ton Unitary Split Systems	7.5	\$411
			<10 Ton CU> 10 Ton Unitary Split Systems	10.0	\$413
			<12.5 Ton CU> 12.5 Ton Unitary Split Systems	12.5	\$369
			<15 Ton CU> 15 Ton Unitary Split Systems	15.0	\$363
			<20 Ton CU> 20 Ton Unitary Split Systems	20.0	\$327
			Description	BTU	\$/10kBTU
	431		<40000 FUR> Split Systems	40,000	\$307
			<60000 FUR> Split Systems	60,000	\$215
			<80000 FUR> Split Systems	80,000	\$182
			<100000 FUR> Split Systems	100,000	\$161
			<120000 FUR> Split Systems	120,000	\$102

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Product Code	Product/Item	Description	Tons	Dollars Per Ton (net)
17	42	VUVE Unit Ventilator		
		<u>Description</u>	<u>Airflow</u>	<u>\$/CFM</u>
		<750 CFM> VUVE Unit Ventilator	750.000	\$5.60
		<1000 CFM> VUVE Unit Ventilator	1,000.000	\$4.51
		<1250 CFM> VUVE Unit Ventilator	1,250.000	\$3.87
		<1500 CFM> VUVE Unit Ventilator	1,500.000	\$3.44
18	1 (20-60 ton) (60-120 ton)	Air-Cooled Condensing Unit		
		<u>Description</u>	<u>Tons</u>	<u>\$/Ton</u>
		<20> 20-60 Ton Air-Cooled Condensing Unit	20	\$436
		<25> 20-60 Ton Air-Cooled Condensing Unit	25	\$407
		<30> 20-60 Ton Air-Cooled Condensing Unit	30	\$385
		<40> 20-60 Ton Air-Cooled Condensing Unit	40	\$410
		<50> 20-60 Ton Air-Cooled Condensing Unit	50	\$373
		<60> 20-60 Ton Air-Cooled Condensing Unit	60	\$311
		<80 Ton> 80-120 Ton Air-Cooled Condensing Unit	80	\$397
		<100 Ton> 80-120 Ton Air-Cooled Condensing Unit	100	\$378
		<120 Ton> 80-120 Ton Air-Cooled Condensing Unit	120	\$356
19		Ohio STS Technician Rates		
		HVAC Project Management	Columbus	\$115.00
		HVAC Project Management	Cincinnati	\$115.00
		HVAC Project Management	Toledo	\$115.00
		HVAC DDC Control Installation	Columbus	\$115.00
		HVAC DDC Control Installation	Cincinnati	\$115.00
		HVAC DDC Control Installation	Toledo	\$125.00
		HVAC DDC Control Service Technician	Columbus	\$115.00
		HVAC DDC Control Service Technician	Cincinnati	\$115.00
		HVAC DDC Control Service Technician	Toledo	\$125.00
		HVAC Mechanical/Electrical Service Technician	Columbus	\$88.00
		HVAC Mechanical/Electrical Service Technician	Cincinnati	\$85.00
		HVAC Mechanical/Electrical Service Technician	Toledo	\$99.00
		Above Product Selected (Typical) Options		
1		CGAM: Air-Cooled Scroll Packaged Chiller		
		60 hertz		
		460 volt 3 phases		
		High efficiency/performance		
		Full factory refrigerant charge (HFC-410A)		
		With freeze protection (External T-STAT control)		
		Refrigerant isolation valves (discharge valve)		
		UL listed to US and Canadian safety std		
		ASHRAE 90.1 2007, 2007 M compliant		
		AHRI certified		
		Startup allowance		
		Std cooling (42 to 65F/5.5 to 18C)		
		Grooved pipe connection		
		Factory insulation - all cold parts		
		Performance based on water		
		Wide ambient (0 to 125F/-18 to 52C)		
		Lanced aluminum fins		
		Across the line starter/direct on line		
		Single point power connection		
		Circuit breaker		
		UL 1995 rated for outdoor applications		
		BACnet interface		
		Default A short circuit rating		
		With water strainer factory installed		
		Super quiet		

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Product Code	Product/Item	Description	Tons	Dollars Per Ton (net)
2	RTAC: Air Cooled Series RTM)			
	460 V/60 Hz/3 Ph			
	Startup Allowance			
	Standard Configuration			
	C/UL Listing			
	ASHRAE 90.1 2007, 2007 M compliant			
	ASME			
	Std 40-60F leaving, with evap heaters			
	2 Pass Arrangement, insulated			
	Standard Temp Range			
	Aluminum Fins			
	TEAO Fan Motors			
	Across the line starter			
	Single point power connection			
	Circuit Breaker(s) - HACR rated			
	BACnet Interface			
	With Refrigerant isolation valves			
3	Water Cooled Helical Rotary Chillers (Duplex)			
	All Units			
	60 hertz			
	460 volt 3 phase			
	Startup allowance			
	UL listed to U.S.and Canadian safety std			
	ASHRAE 90.1 2007 compliant			
	ASME pressure vessel code			
	Single relief valve			
	Factory insulation - all cold parts			
	Grooved pipe connection			
	Shrink wrap			
	Internal & External Enhanced Evaporator Copper Tube			
	2 pass evaporator			
	150 psi/10 bar evap water pressure			
	Standard cooling			
	Fluid type = water			
	Across the line starter			
	Single point power connection			
	Circuit breaker			
	BACnet interface			
	<i>RTWD - water cooled chiller Series R (Std)</i>			
	Standard efficiency/performance			
	Standard Condenser < 95F/35C Leaving Water Temperature			
	AHRI certified			
	Full factory refrigerant charge (134a)			
	Enhanced fin - copper			
	150 psi/10 bar cond water pressure			
	Fluid type = water			
	<i>RTWD - water cooled chiller Series R (Hi Eff)</i>			
	High efficiency/performance			
	Standard Condenser < 95F/35C Leaving Water Temperature			
	AHRI certified			
	Full factory refrigerant charge (134a)			
	Enhanced fin - copper			
	150 psi/10 bar cond water pressure			
	Fluid type = water			

Job Price Summary

updated 1/20/2011				
Product Code	Product/Item	Description	Tons	Dollars Per Ton (net)
4	RTHD - Water-Cooled Series R			
	Startup Allowance			
	C/UL Listing			
	ASHRAE 90.1 2007 compliant			
	AHRI certified			
	ASME Pressure Vessel Code			
	Refrigerant Isolation Valves			
	Factory Insulation - All Cold Parts			
	English			
	Standard Safety Devices			
	Full Factory Refrigerant Charge (134a)			
	Shrink Wrap			
	Internal and External Enhanced Evap Tube			
	Standard Grooved Pipe			
	150psi/10.5Bar Evaporator Water Pressure			
	Enhanced Fin - Copper			
	2 Pass Condenser			
	Standard Grooved Pipe Connection			
	150psi/10.5Bar Condenser Water Pressure			
	460 Volt/60 Hertz/3 Phase			
	Wye-Delta Closed Transition Starter			
	Circuit Breaker			
	BACnet Interface			
	Chilled Water Reset - Return Water Temp.			
5	RTUD - compressor chiller Series R			
	High efficiency/performance			
	Outside AHRI certification			
	Nitrogen charge			
	Remote condenser			
	Outdoor air temp sensor-CWR/low ambient			
	Integral fan controls			
	Variable speed fan with analog interface			
	1 Air-cooled condenser quantity			
	460/60/3 condenser			
	Standard ambient condenser			
6	3-10 Ton R410A PKGD Unitary Gas/Electric Rooftop			
	DX cooling, gas heat			
	Standard efficiency			
	Convertible configuration			
	Major design sequence			
	460/60/3			
	Microprocessor controls 3ph			
	High gas heat 3ph			
	Economizer Dry Bulb 0-100% with Barometric Relief			
	Through the base electrical 3ph			
	Non-fused disconnect			
	Lontalk(R) communications interface 3ph			
	Roof curb (Fld)			
	Programmable zone sensor (Fld)			

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Product Code	Product/Item	Description	Tons	Dollars Per Ton (net)
7	Voyager II - 12.5 Ton - 25 Ton Packaged Rooftop			
	Product Data - Packaged Gas/Electric Rooftop Units			
	Gas/electric unit with special factory installed options (FIOPS)			
	Downflow airflow			
	460 Volt 60 Hertz 3 phase			
	High heat capacity			
	Trane communication interface with downflow economizer			
	Flat roof curb (Fld)			
	Programmable Sensor with Night Setback and System Function Lights (Fld)			
	Thru the base electrical			
	Disconnect switch			
8	Voyager III: 27.5 Ton - 50 Ton Packaged Rooftop			
	Product Data - Packaged Rooftop, Cooling / Heating Units			
	Dx Cooling with Natural Gas Heat			
	Downflow Configuration			
	460 Volt 60 Hertz 3 Phase			
	High Heat			
	100% Power Exhaust			
	Standard Efficiency Throwaway Filter 2'			
	0-100% Economizer, Dry Bulb Control			
	CV (ZTC) zone temp control			
	Service Valves			
	Non-Fused Disconnect Switch			
	Lontalk communication interface			
	Flat Roof Curb (Fld)			
	Programmable zone sensor (Fld)			
	Item: F1 Qty: 1 Tag(s): 27.5 Ton			
	Hi. Eff Supply Motor			
	750/625 (60/50 hz) Supply Fan Drive			
9	Intellipak: 20 Ton - 75 Ton Packaged Rooftop			
	Product Data - Commercial Rooftop Air Conditioning Units (Midrange)			
	All Units			
	DX Cooling With Natural Gas Heat			
	R410A Development sequence			
	None			
	460 Volt-60 Hertz-3 Phase			
	2 Stage high gas heat capacity			
	100% Exhaust - 20 Hp with Statitrac			
	Exhaust/return fan			
	0-100% Economizer			
	Economizer control w/dry bulb			
	Extended grease lines			
	2.00" [51mm] Spring Isolators			
	Throwaway filters			
	Supply motor			
	Supply fan			
	VAV- Discharge Temp Ctrl-Supply and Exhaust/Return Fan with VFD with Bypass			
	Programmable zone sensor (Fld)			
	Standard ambient control			
	cJULus			
	Nonfused Unit Disconnect Switch			
	BACnet communication interface module			
	Flat roof curb (Fld)			

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Product Code	Product/Item	Description	Tons	Dollars Per Ton (net)
10	Intellipak- 90 Ton - 130 Ton Packaged Rooftop			
	Product Data - Commercial Rooftop Air Conditioning Units (Large)			
	All Units			
	Self-Contained, Natural Gas Heat			
	R410A Development Sequence			
	None			
	460 Volt-60 Hertz-3 Phase			
	2 Stage Gas Heat Capacity			
	100% Exhaust 40 HP With Statitrac			
	Exhaust Fan			
	High-Efficiency Throwaway Filters			
	Supply Motor			
	Supply Fan			
	0-100% Economizer			
	Economizer control w/dry bulb			
	VAV-discharge temp control, supply and exhaust/return fan with VFD w/ bypass			
	Programmable zone sensor (Fid)			
	UL Approval			
	Extended Grease Lines			
	BACnet communication interface module			
	Standard Flat Roof Curb (Fid)			
11	Intellipak II: 90-162 Ton Packaged Rooftop			
	Product Data - Commercial Rooftop Air Conditioning Units (Large)			
	Rooftop			
	DX cooling/natural gas heat			
	460/60/3 XL			
	High gas heat-2 stage			
	1 piece unit - w/o blank section			
	Downflow supply/ upflow return			
	Standard CFM supply fan - standard eff motor(s)			
	VAV (DTC) with VFD w/ bypass			
	Economizer with standard dampers and dry bulb control			
	Standard damper			
	Non fused disconnect			
	Standard evap coil-strips steel drain pan			
	Suction service valves and replacable core liquid filter driers			
	BACNet Interface			
	Programable zone sensor			
	cJULus			
	Single side access doors			
	Standard ship cycle			
	Start Up			
	Standard curb (Fid)			
	Standard CFM Exhaust with VFD with Bypass with Statitrac			
12a,b	Centrifugal Chillers			
	2 Stage direct drive			
	Adaptview controls			
	Without industrial chiller package			
	60 Hertz - incoming			
	60 Hertz unit			
	480 Volt - incoming			
	480 volt 3 phase			
	Compressor motor 60 hz			
	Impeller cutback			
	Standard cooling			
	1" Micro intl enhanced cu low press tbg			
	.025" Tube wall thickness evap.			
	Fluid type = water			
	Without evaporator variable flow			
	Non-marine waterbox evap.			
	Standard waterbox construction			
	Two pass waterbox evap.			
	150 psig evap. water pressure			

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Product Code	Product/Item	Description	Tons	Dollars Per Ton (net)
	Victaulic connection evap.			
	12" Waterbox nozzle nom pipe size			
	3/4" Internally enhanced cu. tubing			
	.028" Tube wall thickness cond.			
	Standard condenser construction			
	Fluid type = water			
	Without condenser variable flow			
	Marine waterbox cond.			
	Standard waterbox construction			
	Two pass waterbox cond			
	150 psig cond. water pressure			
	Victaulic connection cond.			
	12" Waterbox nozzle nom pipe size			
	Standard tube sheet construction			
	U.L. listed (United States requirement)			
	Standard air run and vibration.			
	Complies with ASHRAE 90.1 - 1999			
	Complies with ASHRAE 90.1 - 2007			
	Operating Status			
	Trane Supplied Refrig.			
	Wye-delta starter unit/remote mounted			
	UMtd Wye-Delta Starter			
	Circuit breaker			
13	Indoor Performance Climate Changer			
	Unit level options			
	Indoor unit			
	Performance Climate Changer			
	Integral base frame			
	UL listed unit			
	Unpainted (typ)			
	Multiple composite handles/latches			
	Drain pan connections			
	All unit inner panels - galvanized			
	Mixing section			
	Horizontal coil section			
	Horizontal coil section			
	Fan section			
	Field Provided (mtrs, lights, controls)			
	No raceway cover			
	Marine LED lights in unit			
	Single point power			
	Supply fan motor(s)			
	Controller			
	460/3/60			
	Not LPC compatible			
	Controls and VFD/starter			
	Variable volume control system			
	MP580			
	Unit mounted			
	MBF-CW-HC-SF-VAV (AH0037) (AH0046)			
	Duct static transducer			
	VFD w/bypass			
	External mounting			
	Inverter balance			
	No NEMA			
	Transformer			
	MP common configuration not used			
	Air mixing section [1]			
	Air mixing section			
	Mixing box w/filter			
	Access door			
	Back damper - parallel blade			
	Front full face opening			
	Top damper - parallel blade			
	No bottom damper or opening			
	No right side damper or opening			
	No left side damper or opening			

Job Price Summary

updated 1/20/2011				
Product Code	Product/Item	Description	Tons	Dollars Per Ton (net)
	Top - outside air			
	2in. filter frame			
	Pleated media			
	Dirty filter switch			
	Leaving air avg temp sensor			
	16in.x25in. filter media quantity			
	MERV 8			
	Left side 1 harness			
	No stacked raceway			
	Coil section [2]			
	Horizontal coil			
	Access door			
	Stainless steel drain pan			
	Drain connection			
	Condensate overflow switch			
	Cooling coil			
	Chilled water			
	Single use coil			
	Type "UW" coil			
	Aluminum fins			
	Delta flo H (Hi efficient)			
	Apply AHRI ranges			
	AHRI rated and certified			
	Galvanized steel coil casing			
	Turbulators			
	Leaving air avg temp sensor			
	Left side 1 harness			
	No stacked raceway			
	Coil section [3]			
	Horizontal coil			
	Access door			
	Galvanized drain pan			
	Drain connection			
	Coil supply			
	Unit coil height			
	Heating coil			
	Hot water			
	Single use coil			
	Type "5W" coil			
	Aluminum fins			
	Prima flo H (Hi efficient)			
	Apply AHRI ranges			
	AHRI rated and certified			
	Galvanized steel coil casing			
	Entering air low limit			
	Left side 1 harness			
	No stacked raceway			
	Fan section [4]			
	Fan section			
	Supply fan			
	Access door			
	Front-top discharge			
	Right side drive			
	fixed drive			
	NEMA premium compliant ODP			
	Voltage 460/3			
	Inverter balance			
	Fan discharge temp sensor			
	Flow meter			
	VFD w/ bypass			
	External mounting			
	front end of unit face			
	Left side 1 harness			
	No stacked raceway			

Job Price Summary

updated 1/20/2011				
Product Code	Product/Item	Description	Tons	Dollars Per Ton (net)
14	Outdoor T-Series Climate Changer			
	Unit level			
	T - series climate changer			
	UL Listed Unit			
	Factory painted unit - slate gray			
	Standard roof curb			
	Controls package			
	Variable volume control system			
	Unit mounted (opp drive side #3-57)			
	Automatic validation selection			
	MP580 controller			
	MBF-CW-HC-SF-VAV (AH0037) (AH0046)			
	MP common configuration option not used			
	Pipe Cabinet			
	One pipe cabinet module			
	Pipe cabinet 1 standard depth			
	Mixing [1]			
	Mixing module			
	Mixing box with filter frame			
	Insulation 2"(51mm) solid dble wall			
	Back damper - parallel blades			
	Inlet hood back			
	Bottom dampers - parallel blades			
	Pleated media filters - MERV 8			
	Dirty filter switch			
	Filter gauge			
	Averaging temperature sensor			
	Horizontal coil [2]			
	Horizontal coil module			
	Insulation 2"(51mm) solid dble wall			
	Drain pan galvanized IAQ - RH			
	Door left side			
	Standard depth ext cabinet - std door			
	Type "P8" coil			
	Cooling coil			
	Prima flo H (hi efficient)			
	Aluminum fins			
	Galvanized steel coil casing			
	Leaving air averaging temp sensor			
	Chilled water			
	AHRI ranges applied			
	AHRI rated and certified			
	Horizontal coil [3]			
	Horizontal coil module			
	Insulation 2"(51mm) solid dble wall			
	Drain pan galvanized IAQ - RH			
	Standard depth ext cabinet - std door			
	Type "5W" coil			
	Heating coil			
	Prima flo H (hi efficient)			
	Aluminum fins			
	Galvanized steel coil casing			
	Hot water			
	AHRI ranges applied			
	AHRI rated and certified			
	Fan [4]			
	Fan module			
	Insulation 2"(51mm) solid dble wall			
	Marine light			
	Inverter balance			
	Spring isolation			
	Bearings heavy duty			
	Both sides extended grease line			
	Horizontal inlet to supply fan			
	Fan discharge, front - top			
	Fixed drive			
	ODP NEMA premium efficiency			

Job Price Summary

updated 1/20/2011				
Product Code	Product/Item	Description	Tons	Dollars Per Ton (net)
	Voltage 460/3			
	T-frame - standard motor			
	60 cycle/sec			
	TR2 Variable frequency drive w/ byp			
	Fan discharge temperature sensor			
	Airflow switch			
	No conduit			
	Flow meter			
	Crossover Cable 1			
15	Cooling Towers			
	Standard units typical- options N/A			
16	Unitary Split Systems			
	1-5 Ton CU			
	Major Designs Sequence			
	System Control Type			
	Programmable 7 day , 3 heat/2 cool thermostat (Fld)			
	Evaporator defrost control (Fld)			
	Head pressure control (Fld)			
	6-7.5 Ton CU			
	TTA Air Condensing Outdoor Unit			
	Single Compressor - R410A			
	Prog. 7 day, 3 Htg/2 Clg Touchscreen (Fld)			
	1 Low Ambient Modulating (Fld)			
	7.5- 20 Ton CU			
	Air Condensing Outdoor Unit			
	Dual Manifoldd Compressors - R410A			
	Prog. 7 day, 3 Htg/2 Clg Touchscreen (Fld)			
	Furnace unit			
	Major Designs Sequence			
	System Control Type			
	Cased upflow/dnflow/horiz left			
	Standard			
	TXV-Non bleed			
	Heat pump			
	Conv-upflow/dnflw,left airflow coil			
	Concentric vent kit (Fld)			
17	VUVE Unit Ventilator			
	Vertical unit ventilator			
	Return air front/fresh air back			
	Direct expansion cooling coil - R410A			
	Standard motor			
	3 way heating 3-point floating modulating valve (steam-fld)			
	Medium Cv			
	Discharge grille			
	3-point floating modulating outside air damper actuator			
	Tracer ZN520 controls with low temperature detection and fan status			
	Unit mounted sensor			
	External sensor setpoint			
	Timed override			
	1 speed supply fan			
	Acoustic front panel			
	Piping with ball valves,circuit setter w/PT,strainer (CW/HW only excludes steam)			
	Auxiliary drain pan			
	1" MERV 8 filter			
18	Air-Cooled Condensing Unit			
	Air Condensing Outdoor Unit			
	Dual Manifoldd Compressors - R410A			
	Prog. 7 day, 3 Htg/2 Clg Touchscreen (Fld)			
19	Ohio STS Technician Rates			



Trane Rental Services

SIN	Model Number	Product for Rent	Product Code	GSA Monthly Rental Rate
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Rental of Air Cooled Chillers

246-53	CS-ACC-01	10 Ton Air Cooled Chiller	197	\$2,249
246-53	CS-ACC-02	15 Ton Air Cooled Chiller	197	\$2,249
246-53	CS-ACC-03	25 Ton Air Cooled Chiller	197	\$2,249
246-53	CS-ACC-04	40 Ton Air Cooled Chiller	197	\$3,599
246-53	CS-ACC-05	60 Ton Air Cooled Chiller	197	\$4,402
246-53	CS-ACC-06	80 Ton Air Cooled Chiller	197	\$5,205
246-53	CS-ACC-07	100 Ton Air Cooled Chiller	197	\$6,008
246-53	CS-ACC-08	125 Ton Air Cooled Chiller	197	\$6,961
246-53	CS-ACC-09	170 Ton Air Cooled Chiller	197	\$9,005
246-53	CS-ACC-10	200 Ton Air Cooled Chiller	197	\$10,344
246-53	CS-ACC-11	300 Ton Air Cooled Chiller (includes trailer)	197	\$14,363
246-53	CS-ACC-12	400 Ton Air Cooled Chiller (includes trailer, pump, 6" hose box)	197	\$18,947
246-53	CS-ACC-13	500 Ton Air Cooled Chiller (includes trailer, pump, 6" hose box)	197	\$23,452
246-53	CS-ACC-14	155 Ton Air Cooled Chiller	197	\$8,421
246-53	CS-ACC-15	250 Ton Air Cooled Chiller	197	\$12,309

Rental of Water-Cooled Chillers

246-53	CS-WCC-04	500 Ton Water Cooled Chiller	197	\$17,075
246-53	CS-WCC-06	750 Ton Water Cooled Chiller	197	\$23,546
246-53	CS-WCC-09	1000 Ton Water Cooled Chiller	197	\$29,435
246-53	CS-WCC-11	225 Ton Water Cooled Chiller	197	\$10,713
246-53	CS-WCC-12	350 Ton Water Cooled Chiller	197	\$13,605

Pump Rental

246-53	CS-PU-01	3/5 HP Pump	197	\$315
246-53	CS-PU-02	7.5/10 HP Pump	197	\$473
246-53	CS-PU-03	15/20 HP Pump	197	\$808
246-53	CS-PU-04	25/30 HP Pump	197	\$1,013
246-53	CS-PU-05	40/50 HP Pump	197	\$1,577
246-53	CS-PU-06	60 HP Pump	197	\$1,764
246-53	CS-PU-08	125 HP Pump	197	\$3,155
246-53	CS-PU-10	100 HP Pump	197	\$2,541

Hose Kit Rental

246-53	CS-HK-01	2.5" Diameter Hose Kit; contains 200 total feet	197	\$190
246-53	CS-HK-02	4" Diameter Hose Kit; contains 200 total feet	197	\$254
246-53	CS-HK-03	6" Diameter Hose Kit; contains 200 total feet	197	\$593
246-53	CS-HK-04	8" Diameter Hose Kit; contains 400 total feet	197	\$721
246-53	CS-HK-05	10" Diameter Hose Kit; contains 200 total feet	197	\$847
246-53	CS-HK-06	4" Dia Hose Kit for vertical/suction apps 96 ft total	197	\$593

Transformer Rental

246-53	CS-TR-01	300 kVa Transformer	197	\$730
246-53	CS-TR-02	500 kVa Transformer	197	\$1,169



Trane Rental Services

SIN	Model Number	Product for Rent	Product Code	GSA Monthly Rental Rate
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246-53	CS-TR-03	750 kVa Transformer	197	\$1,753
246-53	CS-TR-04	1000 kVa Transformer	197	\$1,948
246-53	CS-TR-05	1500 kVa Transformer	197	\$2,921

Rental of DX/Voyager (Direct Exchange Refrigerant) Units

246-53	CS-VT-01	10 Ton DX (Direct Exchange Refrigerant) Vertical Tent Unit	197	\$1,581
246-53	CS-VT-02	20 Ton DX (Direct Exchange Refrigerant) Vertical Tent Unit	197	\$2,131
246-53	CS-DX-01	25 Ton DX/Voyager (Direct Exchange Refrigerant) Unit	197	\$2,626
246-53	CS-DX-02	35 Ton DX/Voyager (Direct Exchange Refrigerant) Unit	197	\$3,645
246-53	CS-DX-03	50 Ton DX/Voyager (Direct Exchange Refrigerant) Unit	197	\$5,253

Tower Rental

246-53	CS-TO-01	500 Ton Tower (mounted on 48 foot step-deck trailer)	197	\$7,030
246-53	CS-TO-02	250 Ton Tower (mounted on trailer)	197	\$4,256
246-53	CS-TO-03	270 Ton Tower NO TRAILER	197	\$3,950
246-53	CS-TO-04	750 Ton Tower (mounted on 48 foot step-deck trailer)	197	\$10,305

Air Handling Unit (AHU) Rental

246-53	CS-AHU-01	5000 cfm AHU	197	\$2,654
246-53	CS-AHU-02	10000 cfm AHU	197	\$2,745
246-53	CS-AHU-03	25000 cfm AHU	197	\$4,510

Flex Duct Rental

246-53	CS-FD-01	20" Flex Duct [contains (4) 25 foot sections of Flex]	197	\$314
246-53	CS-FD-02	12" Flex Duct [contains (4) 25 foot sections Black]	197	\$260
246-53	CS-FD-03	12" Flex Duct [contains (4) 25 foot sections White]	197	\$260

Rental of Electric Cable

246-53	CS-EC-01	2/0 Cable Box (4) 100' Sections of Electric Cable	197	\$502
246-53	CS-EC-02	4/0 Cable Box (4) 100' Section of Electric Cable	197	\$502

Trailer Rental

246-53	CS-TA-01	48 foot Flatbed Trailer	197	\$907
246-53	CS-TA-02	28 foot Flatbed Trailer	197	\$907
246-53	CS-TA-03	32 foot Flatbed Trailer	197	\$907
246-53	CS-TA-04	48 or 53 ft Step Deck Trailer	197	\$1,108

NOTES:

- (1) The total monthly Rental Rate equals the GSA Monthly Rental Rate multiplied by both the Time of Year Multiplier and the Multi-Month Rental Multiplier.
- (2) The **Time of Year Multiplier** is set out in the Table below.



Trane Rental Services

SIN	Model Number	Product for Rent	Product Code	GSA Monthly Rental Rate
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Time of Year Multiplier

Time of Year Discount

Month

0.80	January
0.80	February
0.80	March
0.80	April
0.90	May
1.00	June
1.00	July
1.00	August
0.90	September
0.80	October
0.80	November
0.80	December

(3) The **Multi-Month Rental Multiplier** is set out in the Table below.

Multi-Month Rental Multiplier

Multiplier

Months

1	1-2
0.85	3-6
0.75	7-12

(4) Trailers are rented at the rate of \$900 per month, regardless of the time of year or length of the rental. This rate is not discounted. Flatbed trailers are 48-Ft or 53-Ft.

(5) The rental rate for a Transformer is waived if the Transformer is rented with a Chiller.

(6) The Time of Year and Multi-Month Rental Multipliers are not applied to the Rental Rate for Electric Cable.

(7) For rental periods that include partial months, the Rental Rates will be calculated as follows:

First Month - Weekly rate will equal 1/3 of monthly rate.
Daily rate will equal 1/7 of weekly rate.

Ending Month - Weekly rate will equal 1/4 of monthly rate.
Daily rate will equal 1/7 of weekly rate.

The minimum rental period is one week.



Trane Rental Services

SIN	Model Number	Product for Rent	Product Code	GSA Monthly Rental Rate
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(9) **Transformers** - Lugs for transformers must be provided by others and are not included. Transformers kVa 300, 500, 750 are for 208, 240, 480, & 600 Volts. Transformers kVa 1,000 & 1,500 (and some 750's) are for 480, 600, 2400, & 4160 Volts.

(10) **Hose Kits** - Trane will not split boxes of the 2.5", 4", or 6" hoses. For 2.5" , 4", and 6", each hose box contains (1) 10ft section, (1) 15ft section, (1) 25ft section, (3) 50ft sections, (2) 90's, (2) 45's, (2) vict-to-flange adapters & vict couplings. For 10" hose box it contains (1) 10ft section, (1) 15ft section, (7) 25ft sections, (2) 90's, (2) 45's, (2) vict-to-flange adapters & vict couplings

(11) **Electric Cable** - The Time of Year and Multi-Month Rental Multipliers are not applied to the rental rate for Electric Cable. Each 2/0 awg or 4/0 awg cable box contains (4) 100-ft sections, (4) 15-ft male pigtails, and (4) 15-ft female pigtails. If pricing electrical cable boxes please note multiple runs per phase might be required depending on the actual unit chosen. Please call Trane Rental Services at 800-755-5115 for any electrical questions regarding Trane Rental cable boxes. Wiring is only provided for 460V side. If a transformer is required the wiring for the building side must be provided by others.

(12) **Chillers** - 300-ton Air-Cooled chiller pricing includes trailer and chiller is on trailer. 400-ton and 500-ton Air-Cooled chiller pricing includes trailer, pump, and 200-ft hose kit of 6-in hose. All Water-Cooled chillers are stored in Charlotte, NC and ship with a Nitrogen holding charge. Refrigerant will be shipped in cylinders on the trailer. The chiller will need to be charged at delivery and the refrigerant recovered before it is sent back.

(13) **Pumps** - Pumps do not have wiring. This must be provided by others.

(14) **Ancillary Items** - Items such as pumps, hose kits, transformers, trailers, and electrical cable can only be rented with a chiller or DX unit. Trane Rentals does not rent these items as stand-alone items.



Building Energy Management and Control Products

SIN Number	Model Number	Product Description	Product Code	GSA Price
ZN511 Products				
246-42(2)	4950 0469	Tracer ZN511 Zone Controller with Plastic Cover	100	\$142
246-42(2)	4950 0569	Tracer ZN511 Zone Controller with Metal Enclosure	100	\$178
MP501 Products				
246-42(2)	4950 0486	Tracer MP501 Setpoint Controller with Plastic Cover	103	\$125
246-42(2)	4950 0586	Tracer MP501 Setpoint Controller w/ Metal Enclosure	103	\$156
Service Tools				
246-42(2)	4020 1199	Rover Service Tool: Software Upgrade Package (s/w)	104	\$91
246-42(2)	X1365149701	Rover LonTalk Hardware Kit	104	\$435
246-42(2)	X1365149801	Rover Comm4 Hardware Kit	104	\$183
246-42(2)	X1365150001	Rover LonTalk & Comm4 Software and Hardware	104	\$671
246-42(2)	X1365149901	Rover LonTalk Software and Hardware	104	\$458
246-42(2)	X1365150201	Rover LonTalk Configuration Only Software and Hardware	104	\$366
246-42(2)	X1365150301	Rover Air and Water Balancing Option	104	\$427
246-42(2)	X1365150101	Rover Comm4 Software and Hardware	104	\$305
End Devices and Sensors				
246-42(2)	3430 3017	24 VAC/SPDT Relay	107	\$8
246-42(2)	3430 3020	24 VAC/SPDT Relay with Enclosure	107	\$15
246-42(2)	3580 3005	24 VAC Wall Plug-in Transformer	107	\$11
246-42(2)	3581 2021	UL Listed Transformer 120/208/240 VAC, 75 VA	107	\$22
246-42(2)	3581 2022	UL Listed Transformer 120 VAC, 40 VA	107	\$8
246-42(2)	4020 0812	24 VDC (500 mA) Power Supply	107	\$197
246-42(2)	4020 1089	Tracer Accessory Resin Enclosure	107	\$150
246-42(2)	4020 1159	5V Differential Duct Static Pressure Sensor	107	\$42
246-42(2)	4190 2006	Air Flow Sampling Probe	107	\$5
246-42(2)	4190 7017	20-4 mA 5% Room Humidity Sensor	107	\$66
246-42(2)	4190 7018	4-20 mA 5% Room Humidity Sensor	107	\$62
246-42(2)	4190 7019	4-20mA 3% Room Humidity Sensor	107	\$115
246-42(2)	4190 7020	4-20mA 3% Duct Humidity Sensor	107	\$120
246-42(2)	4190 7021	4-20mA 3% Outside Air Humidity Sensor	107	\$128
246-42(2)	4190 1045	Balco Duct Temp w/5 ft. Avg. Element	107	\$42
246-42(2)	4190 1046	Balco Duct Temp w/22 ft. Avg. Element	107	\$47
246-42(2)	4190 1080	Balco Transmitter - use w/ PCM AI 3-6	107	\$47
246-42(2)	4190 1082	375 Platinum Transmitter for PCM AI 3-6	107	\$47
246-42(2)	4190 1084	Low Temp. Cutout Manual Reset	107	\$68
246-42(2)	4190 1096	0-50 PSID Diff. Pressure Sensor	107	\$301
246-42(2)	4190 1097	Electric to Pneumatic Transducer w/ Override	107	\$82
246-42(2)	4190 1104	4" Brass Immersion Well	107	\$17
246-42(2)	4190 1106	375 Platinum Outdoor Air Temp w/ Enclosure	107	\$18
246-42(2)	4190 1107	375 Platinum Room Temp w/ Cover	107	\$18
246-42(2)	4190 1108	4" Stainless Steel Immersion Well	107	\$19
246-42(2)	4190 1100	Therm. Sealed Temp. Sensor	107	\$8
246-42(2)	4190 1101	Therm. Outdoor Air Temp Sensor	107	\$17
246-42(2)	4190 1112	6" Brass Immersion Well	107	\$18



Building Energy Management and Control Products

SIN Number	Model Number	Product Description	Product Code	GSA Price
246-42(2)	4190 1113	6" Stainless Steel Imm Well	107	\$23
246-42(2)	4190 1114	Thermal Well Compound	107	\$9
246-42(2)	4190 1119	385 Plat Duct Avg 24'	107	\$74
246-42(2)	4190 1120	Zone Sensor LCD O/C Setpoint	107	\$51
246-42(2)	4190 1121	Zone LCD O/C SP 3 Speed Fan	107	\$62
246-42(2)	4190 1122	20' Averaging Duct Temperature Sensor	107	\$69
246-42(2)	4190 1123	6' Averaging Duct Temperature Sensor	107	\$49
246-42(2)	4190 1129	4" Thermistor Duct 6' Lead Temperature Sensor	107	\$17
246-42(2)	4190 1130	4" Balco Duct/Immersion Temperature Sensor	107	\$31
246-42(2)	4190 1131	4" 375 Platinum Duct/Immersion Temperature Sensor	107	\$25
246-42(2)	4190 1132	4" Thermistor Duct/Immersion Temperature Sensor	107	\$17
246-42(2)	4190 1133	6" Thermistor Duct/Immersion Temperature Sensor	107	\$18
246-42(2)	4190 1134	12" Thermistor Duct Temperature Sensor	107	\$20
246-42(2)	4190 5005	Water Differential Pressure Switch	107	\$51
246-42(2)	4190 5050	Building Static Pressure Sensor Selectable	107	\$92
246-42(2)	4190 5051	Duct Static Pressure Sensor Selectable	107	\$92
246-42(2)	4190 6006	Air Differential Pressure Switch	107	\$17
246-42(2)	4190 6039	High Capacity Electric to Pneumatic Transducer w/o Enclosure	107	\$202
246-42(2)	4190 7015	Stainless Steel Therm. Wall Plate w/ Logo	107	\$9
246-42(2)	4190 7016	Stainless Steel Therm. Wall Plate w/o Logo	107	\$9
246-42(2)	4950 0340	Four 24 VAC Pilot Relays in a Box	107	\$207
246-42(2)	X13310270	Current Sensing Switch	107	\$46
246-42(2)	X1351152801	Zone Sensor	107	\$13
246-42(2)	X1351153001	Zone Sensor w/ On + Cancel	107	\$13
246-42(2)	X1351152701	Zone Sensor w/ On + Cancel + Set. Adj.	107	\$23
246-42(2)	X1351152901	Zone Sensor w/ Set. Adj.	107	\$23
246-42(2)	X1316105702	Thumbwheel Hot/Cold (Qty 12 per box)	107	\$4
246-42(2)	X1365146702	Comm. Module, Zone Sensor (Box of 12)	107	\$27
246-42(2)	X13790422010	CO2 Demand Vent Wall Sensor	107	\$219
246-42(2)	X13790423010	CO2 Demand Vent Duct Sensor	107	\$252
246-42(2)	X13790496	Wireless Zone Sensor Trane NA °F	107	\$120
246-42(2)	X13790498	Wireless Zone Sensor Trane NA °C	107	\$120
246-42(2)	X1379082301	Wireless Temp Sensor Trane NA	107	\$111

Applied Building Controllers				
246-42(2)	4020 1095	CCP Upgrade ROM Kit	115	\$4
246-42(2)	4020 1115	Current Version CCS Literature Package	115	\$170
246-42(2)	4020 1127	Ethernet Fiber Optic Media Converter	115	\$230
246-42(2)	4020 1204	BMTX Internal Modem	115	\$167
246-42(2)	4020 1224	BMTX BCU Operator Display Upgrade Kit	115	\$795
246-42(2)	4950 0457	Comm 5 Repeater	115	\$268
246-42(2)	BMTX001AAB000	Tracer Summit BMTX (Enhanced BCU), Power = 120 VAC	115	\$3,418
246-42(2)	BMTX001AAB001	Tracer Summit BMTX (Enhanced BCU), Power = 120 VAC, with Internal Modem	115	\$3,585
246-42(2)	BMTX001AAB010	Tracer Summit BMTX (Enhanced BCU), Power = 120 VAC, with Operator Display	115	\$4,213
246-42(2)	BMTX001AAB011	Tracer Summit BMTX (Enhanced BCU), Power = 120 VAC, with Operator Display and Internal Modem	115	\$4,380



Building Energy Management and Control Products

SIN Number	Model Number	Product Description	Product Code	GSA Price
246-42(2)	BMTX001BAB000	Tracer Summit BMTX (Enhanced BCU), Power = 230 VAC	115	\$3,418
246-42(2)	BMTX001BAB001	Tracer Summit BMTX (Enhanced BCU), Power = 230 VAC, with Internal Modem	115	\$3,585
246-42(2)	BMTX001BAB010	Tracer Summit BMTX (Enhanced BCU), Power = 230 VAC, with Operator Display	115	\$4,213
246-42(2)	BMTX001BAB011	Tracer Summit BMTX (Enhanced BCU), Power = 230 VAC, with Operator Display and Internal Modem	115	\$4,380
246-42(2)	BMTX001CAB000	Tracer Summit BMTX (Enhanced BCU), Frame Mount - CE Listed (24V)	115	\$3,427
246-42(2)	BMTX001CAB001	Tracer Summit BMTX (Enhanced BCU) Frame Mount w/ Modem - CE Listed (24V)	115	\$3,594
246-42(2)	BMTX001EAB000	Tracer Summit BMTX (Enhanced BCU) Frame Mount - UL Listed (24V)	115	\$3,427
246-42(2)	BMTX001EAB001	Tracer Summit BMTX (Enhanced BCU) Frame Mount w/ Modem - UL Listed (24V)	115	\$3,594
246-42(2)	BMTX001DAB000	Tracer Summit BMTX (Enhanced BCU) Power = 120VAC UUKL Listing	115	\$3,427
246-42(2)	4020 1146	<p>Validation Documentation Templates</p> <p>These are documentation templates to be used for validating a Tracer Summit Critical Control System site. These templates are for single site use only and require completion by a system validation specialist. Templates include: User Requirement Specification, Design Specification, Functional Specification, Installation Qualification, Operational Qualification, Performance Qualification, Validation Master Plan, Risk Assessment, Validation Summary Report, Traceability Matrix.</p> <p>Contact Trane GCC for a validation service quotation to complete the validation documentation and/or to execute the validation protocols.</p>	115	\$9,682
246-42(2)	4950 0531	BMTX Retrofit kit for BMTS & BMTW BCU	115	\$3,418
246-42(2)	4950 0535	BMTX Retrofit kit for BMTS & BMTW BCU with modem	115	\$3,585
246-42(2)	4950 0534	BMTX retrofit kit for Tracer 100 with modem	115	\$3,585
246-42(2)	4950 0532	BMTX retrofit kit for Tracer 100	115	\$3,418

Applied Automation Software				
246-42(2)	4020 1111	Tracer Summit Current Version Work Package (Windows)	131	\$1,106
246-42(2)	4020 1112	Tracer Summit Current Version Work Demo Package (Windows)	131	\$22
246-42(2)	4020 1113	Tracer Summit Current Version Software Upgrade	131	\$294
246-42(2)	40201147	Additional Summit + Critical Control System Package	131	\$1,766
246-42(2)	40201148	Summit Software + Critical Control System Package	131	\$8,831
246-42(2)	40201149	Critical Control System Package	131	\$7,722
246-42(2)	4020 1150	Summit + T100/Tracker Package	131	\$1,249
246-42(2)	4020 1151	T100/Comm Package	131	\$143



Building Energy Management and Control Products

SIN Number	Model Number	Product Description	Product Code	GSA Price
246-42(2)	4020 1152	Summit + Building Management Package	131	\$1,372
246-42(2)	4020 1153	Building Management Package	131	\$266
246-42(2)	4020 1154	Summit + Enterprise Management Package	131	\$2,155
246-42(2)	4020 1155	Enterprise Management Package	131	\$1,049
246-42(2)	4151 0105	Daily Operations Tutorial Only	131	\$41
246-42(2)	4151 0107	Daily Operations Tutorial - 10 Pack	131	\$164

Knowledge Based Services

246-42(2)	4020 1211	Tracer Summit Energy Services - Energy Manager	119	\$1,931
246-42(2)	4020 1212	Tracer Summit Energy Services - Energy Analyst	119	\$3,863
246-42(2)	4020 1213	Tracer Summit Energy Services - Sales Demo Tool	119	\$11

Integration Devices

246-42(2)	TSCB0A000	Software Option: No BAS CSV Programming Required	159	\$1,796
246-42(2)	TSCB0A020	Software Option: Airflow Computer Room Units (using CAREL gateways)	159	\$2,802

Tracker Hardware and Software

246-42(2)	4020 1185	Tracker PC Software (Version 11.0)	179	\$129
246-42(2)	4020 0835	Internal Modem Kit	179	\$188
246-42(2)	4020 0903	Tracker Software Upgrades: (Eng/Spanish) V6.5	179	\$44
246-42(2)	4020 1009	Tracker Software Upgrades: (Eng/French) V6.5	179	\$44
246-42(2)	4020 1046	Tracker Software Upgrades: Ver 5.14 (Eng/Spain & Eng/Fren)	179	\$44
246-42(2)	4020 1206	Upgrade to Tracker Model 12 with LAN	179	\$525
246-42(2)	4020 1207	Upgrade to Tracker Model 24 with LAN	179	\$828
246-42(2)	4020 1209	Upgrade to Tracker Model WSHP with LAN	179	\$1,041
246-42(2)	EMTK-IN-7	Current Ver. Lit.; Installation Guide	179	\$5
246-42(2)	EMTK-OG-8	Current Ver. Lit.; Operators Guide	179	\$12
246-42(2)	BMTK000AA0A110	Building Management Tracker (BMTK): Model 12	179	\$983
246-42(2)	BMTK000AA0A210	Building Management Tracker (BMTK): Model 24	179	\$1,534
246-42(2)	BMTK000AA0A510	Building Management Tracker (BMTK): Model WSHP	179	\$1,747
246-42(2)	BMTK000AB0A110	Building Management Tracker (BMTK): Model 12 with Ethernet and Modem	179	\$1,260
246-42(2)	BMTK000AB0A210	Building Management Tracker (BMTK): Model 24 with Ethernet and Modem	179	\$1,811
246-42(2)	BMTK000AB0A510	Building Management Tracker (BMTK): Model WSHP with Ethernet and Modem	179	\$2,024
246-42(2)	EMTK00001C	Energy Management Tracker (EMTK): No Internal Modem, Stat 16	179	\$1,351
246-42(2)	EMTK00002C	Energy Management Tracker (EMTK): No Internal Modem, Stat 7	179	\$723
246-42(2)	EMTK00003C	Energy Management Tracker (EMTK): No Internal Modem, Stat 4	179	\$519
246-42(2)	EMTK01001C	Energy Management Tracker (EMTK): With Internal Modem, Stat 16	179	\$1,538
246-42(2)	EMTK01002C	Energy Management Tracker (EMTK): With Internal Modem, Stat 7	179	\$911

Legacy Controllers

246-42(2)	3591 4264	25 Pin Female to RJ12 Adapter	182	\$17
246-42(2)	3591 4269	25 Pin Male to RJ12 Adapter	182	\$16
246-42(2)	4020 0801	PCM Front Cover Kit; with LCD	182	\$291



Building Energy Management and Control Products

SIN Number	Model Number	Product Description	Product Code	GSA Price
246-42(2)	4020 0804	PCM Front Cover Kit; No Display	182	\$24
246-42(2)	4020 0811	PCM Enclosure Back Kit; with Transformer	182	\$175
246-42(2)	4020 0916	Plug-in Terminal Strip Kit	182	\$33
246-42(2)	4020 1042	LCD Upgrade ROM	182	\$20
246-42(2)	4950 0341	Transformer/Relay Enclosure	182	\$154
246-42(2)	4950 0345	Large Rooftop Interface	182	\$256
246-42(2)	4950 0372	TCM: Std Ambient, NEMA 1 Enclosure	182	\$289
246-42(2)	4950 0373	TCM: Ext Ambient, NEMA 1 Enclosure	182	\$332
246-42(2)	4950 0374	TCM: Ext Ambient, NEMA 4 Enclosure	182	\$416

VariTrac Central Control Panel

246-42(2)	X13650529010	Central Control Panel, VariTrac II	183	\$504
246-42(2)	X13650530010	Relay Kit for CCP, VariTrac II	183	\$90
246-42(2)	X13650939010	Central Control Panel III with Operator Display	183	\$757
246-42(2)	X13650941010	Central Control Panel III without Operator Display	183	\$463
246-42(2)	X13760015010	Central Control Panel Operator Display Panel Only	183	\$305
246-42(2)	X13650943010	Central Control Panel Relay Kit (New)	183	\$90
246-42(2)	X13650576010	Central Control Panel Binary Input Controller	183	\$378

Programmable Controllers

246-42(2)	4020 1156	Operator Door Display	187	\$398
246-42(2)	4020 1157	MP580/581 Elec Board Only	187	\$613
246-42(2)	4020 1180	Portable Programming Stand	187	\$78
246-42(2)	4950 0468	Wall Mount Operator Display	187	\$413
246-42(2)	4950 0491	Portable, Display with Case	187	\$448
246-42(2)	BMTM000AAB00	Input Power Supply: 120 VAC, with Enclosure, No Display	187	\$823
246-42(2)	BMTM000AAB01	Input Power Supply: 120 VAC, with Enclosure and Touch Screen Operator Display	187	\$1,190
246-42(2)	BMTM000BAB00	Input Power Supply: 230 VAC, with Enclosure, No Display	187	\$823
246-42(2)	BMTM000BAB01	Input Power Supply: 230 VAC, with Enclosure and Touch Screen Operator Display	187	\$1,190
246-42(2)	BMTM000CAB00	Input Power Supply: 230 VAC, Frame Mount, No Display	187	\$718

WebOPS

246-42(2)	4020 1230	Tracer Summit WebOPS Flash/RAM Upgrade	318	\$812
246-42(2)	4020 1236	Tracer Summit WebOPS Capacity Upgrade	318	\$252
246-42(2)	4950 0498	Tracer Summit Standard Web Server	318	\$2,772

ZN517 Products

246-42(2)	4950 0496	Tracer ZN517 Unitary Controller with Plastic Cover	639	\$202
246-42(2)	4950 0596	Tracer ZN517 Unitary Controller with Metal Enclosure	639	\$238

VV551 Products

246-42(2)	4020 1219	Tracer VV551 Single Duct VAV Controller	640	\$168
246-42(2)	4020 1220	Tracer VV551 Single Duct VAV Controller w/ Belimo Actuator	640	\$221
246-42(2)	4020 1221	Tracer VV551 Single Duct VAV Controller w/ Trane Actuator	640	\$203



Building Energy Management and Control Products

SIN Number	Model Number	Product Description	Product Code	GSA Price
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MP503 Products

246-42(2)	4950 0490	Tracer MP503 Setpoint Controller with Plastic Cover	641	\$169
246-42(2)	4950 0590	Tracer MP503 Setpoint Controller w/ Metal Enclosure	641	\$201

EX2 Products

246-42(2)	4950 0499	EX2 Expansion Module with Plastic Cover	642	\$346
246-42(2)	4950 0500	EX2 Expansion Module with Metal Enclosure	642	\$382

AH541 Products

246-42(2)	4950 0468	Standalone Operator Display	644	\$413
246-42(2)	4950 0491	Portable, Display with Case	644	\$448
246-42(2)	BMTA000AAB00	Tracer AH541 Air Handler Controller (BMTA) Power = 120 VAC with Enclosure, No Display	644	\$485
246-42(2)	BMTA000AAB01	Tracer AH541 Air Handler Controller (BMTA) Power = 120 VAC with Enclosure and Display	644	\$852
246-42(2)	BMTA000BAB00	Tracer AH541 Air Handler Controller (BMTA) Power = 230 VAC with Enclosure, No Display	644	\$485
246-42(2)	BMTA000BAB01	Tracer AH541 Air Handler Controller (BMTA) Power = 230 VAC with Enclosure and Display	644	\$852
246-42(2)	BMTA000CAB00	Tracer AH541 Air Handler Controller (BMTA) Power = No Power Supply for Unit Frame Mount, No Display	644	\$384

ZN521 Products

246-42(2)	4950 0470	Tracer ZN521 Zone Controller with Plastic Cover	645	\$192
246-42(2)	4950 0570	Tracer ZN521 Zone Controller with Metal Enclosure	645	\$228

Tenant Services

246-42(2)	TSTS-STD	Tenant Services STD Workstation	648	\$9,753
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Equipment Price List

CALMAC ICE BANK Thermal Energy Storage

SIN	Reference Number	Description	GSA Price w/IFF
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MODEL 1500C ICE BANK Tank

246-42(2)	CALM-1500C	Model 1500CSF (same end connections), 1500CRF (opposite end connections) ICE BANK Tanks . 486 nominal ton-hours each, (2) - 4" flanged connections, 89"(w) x 273"(L) x 102"(H). Price is per tank for quantities of six or less Model 1500C Tanks. For quantities of tanks greater than six, see Reference Number # CALM-1500C-7 for the price of additional Model 1500Cs on the same project. A 1500C & 1320C lifting bar is required for Model 1500C tanks.	\$28,664
246-42(2)	CALM-1500C-7	Additional Model 1500C ICE BANK tanks over six per project. Price is per tank for greater than six Model 1500C tanks on the same project. A 1500C & 1320C lifting bar is required for Model 1500C tanks.	\$27,972
246-42(2)	CALM-1500C-TB	Add for Total Burial. Buried tank option allows one (1) foot below grade burial of tank on a concrete pad. A layer of wood chips can be used to cover the tank. The price includes thicker tank walls, a center support, one set of shut off valves with access extensions for valves, and fill port extensions for each 1500C tank for field installation.	\$3,114
246-42(2)	CALM-1500C-MAT	Add for Mixair Tank Option. Mixair tank adds the ability for air agitation to occur during discharge. See CALMAC catalog for discharge performance details. Models with Mixair require properly sized air blower and can only use Ultrasonic meters. Price for Model 1500C mixair tank is in addition to cost for standard Model 1500C tank.	\$1,878

MODEL 1320C ICE BANK Tank

246-42(2)	CALM-1320C	Model 1320CSF (same end connections), 1320CRF (opposite end connections) IceBank Tanks . 324 nominal ton-hours each, (2) - 4" flanged connections, 89"(w) x 183"(L) x 102"(H). A 1500C & 1320C lifting bar is required for Model 1320C tanks.	\$18,879
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Equipment Price List

CALMAC ICE BANK Thermal Energy Storage

SIN	Reference Number	Description	GSA Price w/IFF
246-42(2)	CALM-1320C-TB	Add for Total Burial. Buried tank option allows one (1) foot below grade burial of tank on a concrete pad. A layer of wood chips can be used to cover the tank. The price includes thicker tank walls, a center support, one set of shut off valves with access extensions for valves, and fill port extensions for each 1320C tank for field installation.	\$2,372
246-42(2)	CALM-1320C-MAT	Add for Mixair Tank Option. Mixair tank adds the ability for air agitation to occur during discharge. See CALMAC catalog for discharge performance details. Models with Mixair require properly sized air blower and can only use Ultrasonic meters. Price for Model 1320C mixair tank is in addition to cost for standard Model 1320C tank.	\$1,236

MODEL 1190C AND 1190A ICE BANK Tanks

246-42(2)	CALM-1190C-2F	Model 1190C2F ICE BANK Tank. 162 nominal ton-hours, (2) 4" flanged connections, 89" diameter x 102" tall. A 1220C, 1190C and 1098C lifting bar is required for Model 1190C tanks. Model 1190C tanks can be installed in groups of two, three or four.	\$9,686
246-42(2)	CALM-1190C-3F	Model 1190C3F ICE BANK Tank. 162 nominal ton-hours, (2) 4" flanged connections, 89" diameter x 102" tall. A 1220C, 1190C and 1098C lifting bar is required for Model 1190C tanks. Model 1190C tanks can be installed in groups of two, three or four.	\$9,736



Equipment Price List

CALMAC ICE BANK Thermal Energy Storage

SIN	Reference Number	Description	GSA Price w/IFF
246-42(2)	CALM-1190C-4F	Model 1190C4F ICE Bank Tank. 162 nominal ton-hours, (2) 4" flanged connections, 89" diameter x 102" tall. A 1220C, 1190C and 1098C lifting bar is required for Model 1190C tanks. Model 1190C tanks can be installed in groups of two, three or four.	\$9,785
246-42(2)	CALM-1190C-TB	Add for total burial (1190C-only). Buried tank option allows one (1) foot below grade burial of tank on a concrete pad. A layer of wood chips can be used to cover the tank. The price includes thicker tank walls, a center support, and fill port extensions for each 1190C tank for field installation. Model 1190C tanks for direct burials can be configured in many ways so buried shut-off valves with access ports need to be counted.	\$1,137
246-42(2)	CALM-1190C-MAT	Add for Mixair Option. Mixair tank adds the ability for air agitation to occur during discharge. See CALMAC catalog for discharge performance details. Models with Mixair require properly sized air blower and can only use Ultrasonic inventory meters. Price for Model 1190C mixair tank is in addition to cost for standard Model 1190C tank.	\$618
246-42(2)	CALM-1190A	Model 1190A ICE BANK Tank 162 nominal ton-hours, (2) 2" flanged connections, 89" diameter x 102" tall, fork lift base. Model A tanks cannot be assembled into groups.	\$9,192



Equipment Price List

CALMAC ICE BANK Thermal Energy Storage

SIN	Reference Number	Description	GSA Price w/IFF
246-42(2)	CALM-1190A-ST	Model 1190A Salt Tank Same as a Model 1190A tank but includes necessary hardware to operate with selected salts for freeze points below 32 deg. F. Includes stainless steel mixing pump factory mounted. (Electric service required, extra and installed by Trane)	\$10,378
246-42(2)	CALM-1190A-AS28ES	Add for salt (28 degree eutectic salt - freeze point depressant). For inclusion in 1190A salt tank. Shipped separately and installed by Trane. See manual for ton-hours available.	\$692
246-42(2)	CALM-1190A-AS12ES	Add for salt (12 degree eutectic salt - freeze point depressant) For inclusion in 1190A salt tank. Shipped separately and installed by Trane. See manual for ton-hours available.	\$1,977



Equipment Price List

CALMAC ICE BANK Thermal Energy Storage

SIN	Reference Number	Description	GSA Price w/IFF
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Model 1098C and 1098A ICE BANK Tanks

246-42(2)	CALM-1098C-2F	Model 1098C2F Tank. 98 nominal ton-hours, (2) 4" flanged connections, 89" diameter x 68" tall. A 1220C, 1190C and 1098C lifting bar is required for Model 1098C tanks. Model 1098C tanks can be installed in groups of two, three or four.	\$7,067
246-42(2)	CALM-1098C-3F	Model 1098C3F ICE BANK Tank. 98 nominal ton-hours, (3) 4" flanged connections, 89" diameter x 68" tall. A 1220C, 1190C and 1098C lifting bar is required for Model 1098C tanks. Model 1098C tanks can be installed in groups of two, three or four.	\$7,117
246-42(2)	CALM-1098C-4F	Model 1098C4F ICE BANK Tank. 98 nominal ton-hours, (4) 4" flanged connections, 89" diameter x 68" tall. A 1220C, 1190C and 1098C lifting bar is required for Model 1098C tanks. Model 1098C tanks can be installed in groups of two, three or four.	\$7,166
246-42(2)	CALM-1098C-TB	Add for Total Burial (1098C-only). Buried tank option allows one (1) foot below grade burial of tank on a concrete pad. A layer of wood chips can be used to cover the tank. The price includes thicker tank walls, a center support, and fill port extensions for each 1098C tank for field installation. Model 1098C tanks for direct burials can be configured in many ways so buried shut-off valves with access ports need to be counted.	\$964
246-42(2)	CALM-1098C-MAT	Add for mixair (C or A Models). Mixair tank adds the ability for air agitation to occur during discharge. See CALMAC catalog for discharge performance details. Models with Mixair require properly sized air blower and can only use Ultrasonic inventory meters. Price for Model 1098C mixair tank is in addition to cost for standard Model 1098C tank.	\$568



Equipment Price List

CALMAC ICE BANK Thermal Energy Storage

SIN	Reference Number	Description	GSA Price w/IFF
246-42(2)	CALM-1098A	Model 1098A ICE BANK Tank 98 nominal ton-hours, (2) 2" flanged connections, 89" diameter x 68" tall, fork lift base. Model A tanks cannot be assembled into groups.	\$6,573
246-42(2)	CALM-1098A-ST	Model 1098A Salt tank Same as Model 1098A tank but includes necessary hardware to operate with selected salts for freeze points below 32 deg. F. Includes stainless steel mixing pump factory mounted. (Electric service required, extra and installed by Trane)	\$7,759
246-42(2)	CALM-1098A-AS28	Add for salt (28 degree) For inclusion in 1098A salt tank, shipped separately and installed by Trane. See manual for ton-hours available.	\$420
246-42(2)	CALM-1098A-AS12	Add for salt (12 degree) For inclusion in 1098A salt tank, shipped separately and installed by Trane. See manual for ton-hours available.	\$1,186

MODEL 1105C and 1105A ICE BANK Tanks

246-42(2)	CALM-1105C-2F	Model 1105C2F Tank. 100 nominal ton-hours, (2) 4" flanged connections, 74" diameter x 102" tall. A 1220C, 1190C and 1098C lifting bar is required for Model 1105C tanks. Model 1105C tanks can be installed in groups of two, three or four. Groupings of three to four tanks requires one or two of the tanks to be model 1105CU4F tank(s) that include internal expansion provisions.	\$7,561
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Equipment Price List

CALMAC ICE BANK Thermal Energy Storage

SIN	Reference Number	Description	GSA Price w/IFF
246-42(2)	CALM-1105C-3F	Model 1105C3F ICE BANK Tank. 100 nominal ton-hours, (3) 4" flanged connections, 74" (w) x 76" diameter x 102" tall. A 1220C, 1190C and 1098C lifting bar is required for Model 1105C tanks. Model 1105C tanks can be installed in groups of two, three or four. Groupings of three to four tanks requires one or two of the tanks to be model 1105CU4F tank(s) that include internal expansion provisions.	\$7,611
246-42(2)	CALM-1105C-4F	Model 1105C4F ICE BANK Tank. 100 nominal ton-hours, (4) 4" flanged connections, 74" diameter x 102" tall. A 1220C, 1190C and 1098C lifting bar is required for Model 1105C tanks. Model 1105C tanks can be installed in groups of two, three or four. Groupings of three to four tanks requires one or two of the tanks to be model 1105CU4F tank(s) that include internal expansion provisions.	\$7,660
246-42(2)	CALM-1105C-U4F	Model 1105CU4F ICE BANK Tank. 100 nominal ton-hours, (4) 4" flanged connections, 74" diameter x 102" tall. A 1220C, 1190C and 1098C lifting bar is required for Model 1105C tanks. Model 1105C tanks can be installed in groups of two, three or four. Groupings of three to four tanks requires one or two of these tank(s) that include internal expansion provisions.	\$8,056
246-42(2)	CALM-1105A	Model 1105A ICE BANK Tank 100 nominal ton-hours, (2) 2" flanged connections, 74" diameter x 102" tall, fork lift base. Model A tanks cannot be assembled into groups.	\$6,820

Model 1082C and 1082A ICE BANK Tanks



Equipment Price List

CALMAC ICE BANK Thermal Energy Storage

SIN	Reference Number	Description	GSA Price w/IFF
246-42(2)	CALM-1082C-2F	Model 1082C2F ICE BANK Tank. 82 nominal ton-hours, (2) 4" flanged connections, 74"(w) x 76" (L) x 85" tall. A 1220C, 1190C and 1098C lifting bar is required for Model 1082C tanks. Model 1082C tanks can be installed in groups of two, three or four. Groupings of three to four tanks requires one or two of the tanks to be model 1082CU4F tank(s) that include internal expansion provisions.	\$6,573
246-42(2)	CALM-1082C-3F	Model 1082C3F ICE BANK Tank. 82 nominal ton-hours, (3) 4" flanged connections, 74"(w) x 76" (L) x 85" tall. A 1220C, 1190C and 1098C lifting bar is required for Model 1082C tanks. Model 1082C tanks can be installed in groups of two, three or four. Groupings of three to four tanks requires one or two of the tanks to be model 1082CU4F tank(s) that include internal expansion provisions.	\$6,622
246-42(2)	CALM-1082C-4F	Model 1082C4F ICE BANK Tank. 82 nominal ton-hours, (4) 4" flanged connections, 74"(w) x 76" (L) x 85" tall. A 1220C, 1190C and 1098C lifting bar is required for Model 1105C tanks. Model 1082C tanks can be installed in groups of two, three or four. Groupings of three to four tanks requires one or two of the tanks to be model 1082CU4F tank(s) that include internal expansion provisions.	\$6,672
246-42(2)	CALM-1082C-U4F	Model 1082CU4F ICE BANK Tank. 82 nominal ton-hours, (4) 4" flanged connections, 74"(w) x 76" (L) x 85" tall. A 1220C, 1190C and 1098C lifting bar is required for Model 1082C tanks. Model 1105C tanks can be installed in groups of two, three or four. Groupings of three to four tanks requires one or two of these tank(s) that include internal expansion provisions.	\$7,018
246-42(2)	CALM-1082A	Model 1082A ICE BANK Tank. 82 nominal ton-hours, (2) 2" flanged connections, 74"(w) x 76" (L) x 85" tall, fork lift base. Model A tanks cannot be assembled into groups	\$5,832



Equipment Price List

CALMAC ICE BANK Thermal Energy Storage

SIN	Reference Number	Description	GSA Price w/IFF
246-42(2)	CALM-1082C-MAT	Add for Mixair. Mixair tank adds the ability for air agitation to occur during discharge. See CALMAC catalog for discharge performance details. Models with Mixair require properly sized air blower and can only use Ultrasonic inventory meters. Price for Model 1082C mixair tank is in addition to cost for standard Model 1082C tank.	\$445
246-42(2)	CALM-1082A-ST	Model 1082A Salt tank Same as Model 1082A tank but includes necessary hardware to operate with selected salts for freeze points below 32 deg. F. Includes stainless steel mixing pump factory mounted. (Electric service required, extra and installed by Trane)	\$7,018
246-42(2)	CALM-1082A-AS28	Add for salt (28 degree) For inclusion in 1082A salt tank, shipped separately and installed by Trane. See manual for ton-hours available.	\$371
246-42(2)	CALM-1082A-AS12	Add for salt (12 degree) For inclusion in 1082A salt tank, shipped separately and installed by Trane. See manual for ton-hours available.	\$988

Model 1045C and 1045A ICE BANK Tanks

246-42(2)	CALM-1045C-2F	Model 1045C2F ICE BANK Tank. 41 nominal ton-hours, (2) 4" flanged connections, 74"(w) x 76"(L) x 49" tall. A 1220C, 1190C and 1098C lifting bar is required for Model 1045C tanks. Model 1045C tanks can be installed in groups of two, three or four. Groupings of three to four tanks requires one or two of the tanks to be model 1045CU4F tank(s) that include internal expansion provisions.	\$4,794
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Equipment Price List

CALMAC ICE BANK Thermal Energy Storage

SIN	Reference Number	Description	GSA Price w/IFF
246-42(2)	CALM-1045C-3F	Model 1045C3F ICE BANK Tank. 41 nominal ton-hours, (3) 4" flanged connections, 74"(w) x 76"(L) x 49" tall. A 1220C, 1190C and 1098C lifting bar is required for Model 1045C tanks. Model 1045C tanks can be installed in groups of two, three or four. Groupings of three to four tanks requires one or two of the tanks to be model 1045CU4F tank(s) that include internal expansion provisions.	\$4,843
246-42(2)	CALM-1045C-4F	Model 1045C4F ICE BANK Tank. 41 nominal ton-hours, (4) 4" flanged connections, 74"(w) x 76"(L) x 49" tall. A 1220C, 1190C and 1098C lifting bar is required for Model 1045C tanks. Model 1045C tanks can be installed in groups of two, three or four. Groupings of three to four tanks requires one or two of the tanks to be model 1045CU4F tank(s) that include internal expansion provisions.	\$4,893
246-42(2)	CALM-1045C-U4F	Model 1045CU4F ICE BANK Tank. 41 nominal ton-hours, (4) 4" flanged connections, 74"(w) x 76" (L) x 85" tall. A 1220C, 1190C and 1098C lifting bar is required for Model 1045C tanks. Model 1045C tanks can be installed in groups of two, three or four. Groupings of three to four tanks requires one or two of these tank(s) that include internal expansion provisions.	\$5,337
246-42(2)	CALM-1045A	Model 1045A ICE BANK Tank 45 nominal ton-hours, (2) 2" flanged connections, 74"(w) x 76" (L) x 49" tall, fork lift base. Model A tanks cannot be assembled into groups.	\$4,201

Accessories

246-42(2)	CALM-LB1	Lifting Bar (For 1190C, 1098C, 1105C, 1082C, 1045C Tanks)	\$173
246-42(2)	CALM-LB2	Lifting Bar (For Model 1320C and 1500C Tanks)	\$395
246-42(2)	CALM-GMS	Glycol Management System (Glycol make up system)	\$3,805
246-42(2)	CALM-SIIM	Standard Ice Inventory Meter (One per project, std tanks)	\$1,137
246-42(2)	CALM-UIIM	Ultrasonic Ice Inventory Meter (One per project Mix air tanks)	\$2,619



Equipment Price List

CALMAC ICE BANK Thermal Energy Storage

SIN	Reference Number	Description	GSA Price w/IFF
246-42(2)	CALM-3FLEX	3' flex connector for model A Tank (Replacement part for older tanks)	\$272
246-42(2)	CALM-4FLEX	4' flex connector for model A Tank (Replacement part for older tanks)	\$297
246-42(2)	CALM-5FLEX	5' flex connector for model A Tank (Replacement part for older tanks)	\$321
246-42(2)	CALM-SOVK	Model C Tank Shut-off Valve Kit (2- 4" flanged lug type ball shut off valves for field installation)	\$469
246-42(2)	CALM-BVK	Model C Tank Buried Valve Kit (2-V)	\$791
246-42(2)	CALM-1190C-EJK	1190C Expansion Joint Kit (4 packs). Required if assembling more than (3) 1190C tanks for expansion provisions. Field installed, insulated by others.	\$469
246-42(2)	CALM-LHL	Lifting Hook Lid (option for A Style tanks only)	\$183
246-42(2)	CALM-CT	Coolant Tester	\$227
246-42(2)	CALM-5MB	5.0 hp Mixair Blower (Models with Mixair require properly sized air blower and can only use Ultrasonic inventory meters.)	\$5,535
246-42(2)	CALM-75MB	7.5 hp Mixair Blower (Models with Mixair require properly sized air blower and can only use Ultrasonic inventory meters.)	\$4,102
246-42(2)	CALM-10MB	10.0 hp Mixair Blower (Models with Mixair require properly sized air blower and can only use Ultrasonic inventory meters.)	\$5,832
246-42(2)	CALM-ASK	Aluminum Skin Kit (replacement part) (Required for mix air tank. Contact TRANE for proper size.)	\$494
246-42(2)	CALM-AT	Algicide treatment (pint) one / module / 2 years. First 2 year treatment included with new tanks.	\$27
246-42(2)	CALM-TR	Transducer (replacement part for inventory meter)	\$544