

Precision Cooling

Computer Room Air Handlers (CRAH)
Perimeter Mounted Chilled Water Cooling



Trane innovations in systems design through optimization of Trane Chillers and Trane CRAH supply air temperatures can improve overall system efficiency.

With applications expertise and a wide array of solutions and services, Trane—a holistic provider—can help ensure mission critical facilities are highly reliable, efficient and sustainable.

- State-of-the-art Microprocessor Controller with a range of Building Management Systems interface options
- Dual 2-way CW Valves standard on CFD-510 and larger units (option for single 2-way CW Valves)
- Multiple EC Fan options
- All EC Fans mounted in the cabinet meet full performance without being dropped into raised floor
- Fewer units at higher capacity can significantly reduce capital and operating costs
- Dehumidification efficiently achieved through reduced air volume at maximum cooling
- Standard floor stands for all models, seismic rated floor stands available on some models



Technical Data

CRAH Chilled Water		
Single & Dual Circuit CW Systems		
Capacity	kW	60 - 280
	MBH	205 - 986
	Tons	17 - 82
Air Flow	CFM	11,500 - 24,000

Technical Data

Down-Flow									
Models: TR-CFD- 060-C1 090-C1 120-C1 150-C1 180-C1 190-C1 230-C1 280-C1									
NET COOLING CAPACITY - MBH @ 45°F EWT, 0% Glycol Solution (Includes motor heat @ rated CFM & ESP)									
85°FDB/65.9°FWB, 36% RH, 55°FDP									
High Flow (10°F ΔTw)	Total, MBH	349	399	496	454	582	675	772	986
	Sensible, MBH	329	358	422	436	536	588	652	828
	Flow Rate, GPM / (Pressure Drop, ft H ₂ O)	74/(49)	84/(38)	104/(39)	97/(42)	123/(38)	141/(63)	161/(42)	206/(55)
Med. Flow (12°F ΔTw)	Total, MBH	338	389	481	438	566	660	758	969
	Sensible, MBH	321	352	415	423	525	579	645	820
	Flow Rate, GPM / (Pressure Drop, ft H ₂ O)	60/(34)	69/(27)	84/(27)	78/(30)	100/(27)	116/(45)	132/(30)	169/(39)
Low Flow (14°F ΔTw)	Total, MBH	326	377	468	422	550	645	747	953
	Sensible, MBH	311	343	409	408	512	569	639	811
	Flow Rate, GPM / (Pressure Drop, ft H ₂ O)	50/(25)	57/(20)	70/(21)	65/(22)	83/(20)	97/(33)	111/(23)	142/(30)
75°FDB/62.5°FWB, 50% RH, 55°FDP									
High Flow (10°F ΔTw)	Total, MBH	250	292	367	322	426	509	588	753
	Sensible, MBH	223	247	295	295	369	414	463	589
	Flow Rate, GPM / (Pressure Drop, ft H ₂ O)	54/(29)	63/(23)	78/(24)	71/(25)	92/(24)	108/(40)	124/(27)	159/(35)
Med. Flow (12°F ΔTw)	Total, MBH	234	276	350	302	404	491	567	724
	Sensible, MBH	213	237	286	279	355	404	452	574
	Flow Rate, GPM / (Pressure Drop, ft H ₂ O)	43/(20)	50/(16)	62/(17)	56/(18)	73/(17)	87/(28)	100/(19)	128/(25)
Low Flow (14°F ΔTw)	Total, MBH	218	260	333	279	379	474	545	696
	Sensible, MBH	200	227	278	261	337	393	441	560
	Flow Rate, GPM / (Pressure Drop, ft H ₂ O)	34/(14)	41/(12)	51/(13)	45/(13)	59/(13)	72/(21)	83/(15)	106/(19)
Evaporator Blower / Motor - Backward Inclined Direct Driven EC									
Rated Air Flow, CFM @ 3" H ₂ O ES		11,500	11,500	12,400	16,500	18,000	18,000	19,000	24,000
Unit Dimensions: H" x W" x D"									
76.2 x 77.4 x 40.3			76.2 x 89.1 x 40.3			76.2 x 118.4 x 40.3			
Up-Flow									
Model: TR-CFU- 060-C1 090-C1 120-C1 150-C1 180-C1 190-C1 230-C1 280-C1									
NET COOLING CAPACITY - MBH @ 45°F EWT, 0% Glycol Solution (Includes motor heat @ rated CFM & ESP)									
85°FDB/65.9°FWB, 36% RH, 55°FDP									
High Flow (10°F ΔTw)	Total, MBH	339	387	416	454	556	646	690	876
	Sensible, MBH	317	345	346	436	507	556	572	722
	Flow Rate, GPM / (Pressure Drop, ft H ₂ O)	72/(47)	82/(36)	88/(29)	97/(42)	118/(35)	136/(58)	144/(35)	184/(45)
Med. Flow (12°F ΔTw)	Total, MBH	328	376	403	438	540	628	678	861
	Sensible, MBH	310	338	340	423	496	546	566	715
	Flow Rate, GPM / (Pressure Drop, ft H ₂ O)	58/(32)	67/(25)	71/(21)	78/(30)	95/(25)	110/(41)	118/(25)	151/(32)
Low Flow (14°F ΔTw)	Total, MBH	316	365	391	422	524	614	663	841
	Sensible, MBH	300	331	334	408	484	537	558	705
	Flow Rate, GPM / (Pressure Drop, ft H ₂ O)	48/(24)	55/(19)	59/(16)	65/(22)	80/(19)	93/(31)	99/(19)	126/(24)
75°FDB/62.5°FWB, 50% RH, 55°FDP									
High Flow (10°F ΔTw)	Total, MBH	243	283	308	322	406	485	526	667
	Sensible, MBH	216	238	242	295	349	391	406	513
	Flow Rate, GPM / (Pressure Drop, ft H ₂ O)	53/(28)	61/(22)	66/(19)	71/(25)	88/(22)	104/(37)	112/(23)	142/(29)
Med. Flow (12°F ΔTw)	Total, MBH	227	267	293	302	385	468	504	640
	Sensible, MBH	205	229	234	279	335	381	396	499
	Flow Rate, GPM / (Pressure Drop, ft H ₂ O)	42/(19)	48/(16)	53/(14)	56/(18)	70/(16)	83/(26)	89/(17)	114/(21)
Low Flow (14°F ΔTw)	Total, MBH	211	252	278	279	360	451	483	614
	Sensible, MBH	193	219	227	261	318	371	385	486
	Flow Rate, GPM / (Pressure Drop, ft H ₂ O)	33/(14)	39/(12)	43/(11)	45/(13)	56/(12)	69/(20)	74/(13)	94/(16)
Evaporator Blower / Motor - Backward Inclined Direct Driven EC									
Rated Air Flow, CFM @ 3" H ₂ O ES		11,000	11,000	10,000	16,500	16,800	16,800	16,400	20,600
Unit Dimensions: H" x W" x D"									
88.1 x 77.4 x 40.3			88.1 x 89.1 x 40.3			88.1 x 118.4 x 40.3			

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