

STULZ

CLIMATE. CUSTOMIZED.

Precision Cooling

STULZ CyberAIR® CW

STULZ offers the broadest range of precision cooling capacities, including the highest capacity CRAH on the market. This portfolio, along with extensive precision cooling experience, allows STULZ the flexibility to successfully meet the needs of any mission critical application.



CF (D/U) - C Single & Dual Circuit CW Systems (CRAH)

Capacity	kW	60 - 730
	MBH	205 - 2,491
	Tons	17 - 208
Air Flow	CFM	11,500 - 60,000

STULZ perimeter air handlers are available in down-flow and up-flow configurations.

- STULZ' state-of-the-art E^2 Microprocessor with a range of BMS interface options
- Dual 2-way CW Valves standard on CFD-510 and larger units (option for single 2-way CW Valve)
- 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

Down-Flow Model: CFD-														060-C1	090-C1	120-C1	150-C1	180-C1	190-C1	230-C1	280-C1	310-C1	360-C1	510-C1	630-C1	730-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	1,122	1,274	1,738	2,177	2,570												
	Sensible, MBH	329	358	422	436	536	588	652	828	965	1,084	1,362	1,751	2,120												
	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)	236/(71)	266/(42)	362/(57)	454/(84)	536/(113)												
Med. Flow (12°F ΔTw)	Total, MBH	338	389	481	438	566	660	758	969	1,104	1,254	1,714	2,147	2,537												
	Sensible, MBH	321	352	415	423	525	579	645	820	955	1,074	1,352	1,737	2,103												
	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)	193/(50)	218/(31)	298/(41)	372/(60)	442/(80)												
Low Flow (14°F ΔTw)	Total, MBH	326	377	468	422	550	645	747	953	1,087	1,235	1,692	2,121	2,508												
	Sensible, MBH	311	343	409	408	512	569	639	811	945	1,062	1,340	1,724	2,087												
	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)	163/(37)	185/(24)	252/(32)	316/(46)	374/(61)												
75°FDB/62.5°FWB, 50% RH, 55°FDP														85°FDB/65.9°FWB, 36% RH, 55°FDP												
High Flow (10°F ΔTw)	Total, MBH	250	292	367	322	426	509	588	753	849	969	1,360	1,691	1,983												
	Sensible, MBH	223	247	295	295	369	414	463	589	680	769	990	1,264	1,519												
	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)	181/(44)	205/(28)	286/(39)	356/(56)	418/(74)												
Med. Flow (12°F ΔTw)	Total, MBH	234	276	350	302	404	491	567	724	825	943	1,329	1,652	1,940												
	Sensible, MBH	213	237	286	279	355	404	452	574	666	754	976	1,245	1,497												
	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)	147/(31)	166/(20)	234/(28)	290/(40)	342/(52)												
Low Flow (14°F ΔTw)	Total, MBH	218	260	333	279	379	474	545	696	794	908	1,299	1,618	1,901												
	Sensible, MBH	200	227	278	261	337	393	441	560	649	734	962	1,228	1,476												
	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)	122/(23)	138/(15)	196/(21)	244/(30)	288/(39)												
Evaporator Blower / Motor - Backward Inclined Direct Driven EC														Rated Air Flow, CFM @ 3"H ₂ OES												
		11,500	11,500	12,400	16,500	18,000	18,000	19,000	24,000	29,000	32,000	36,000	48,000	60,000												

Up-Flow Model: 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										85°FDB/65.9°FWB, 36% 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 OES								
		11,000	11,000	10,000	16,500	16,800	16,800	16,400	20,600									

Down-Flow CFD-	Unit Dimensions: H"x W"x D"*
060-C1	76.2 x 77.4 x 40.3
090-C1	76.2 x 77.4 x 40.3
120-C1	76.2 x 89.1 x 40.3
150-C1	76.2 x 118.4 x 40.3
180-C1	76.2 x 118.4 x 40.3
190-C1	76.2 x 118.4 x 40.3
230-C1	76.2 x 118.4 x 40.3
280-C1	88.1 x 118.4 x 50.2
310-C1	88.1 x 118.4 x 50.2
360-C1	88.1 x 127.9 x 50.2
510-C1	96.0 x 154.0 x 65.7
630-C1	96.0 x 154.0 x 65.7
730-C1	96.0 x 154.0 x 65.7
Up-Flow CFU-	Unit Dimensions: H"x W"x D"*
060-C1	88.1 x 77.4 x 40.3
090-C1	88.1 x 77.4 x 40.3
120-C1	88.1 x 89.1 x 40.3
150-C1	88.1 x 118.4 x 40.3
180-C1	88.1 x 118.4 x 40.3
190-C1	88.1 x 118.4 x 40.3
230-C1	88.1 x 118.4 x 40.3
280-C1	96.0 x 118.4 x 50.2

* See the engineering manual for dimensions with Hot Water Reheat and filter plenums

STULZ AIR TECHNOLOGY SYSTEMS (STULZ USA), INC.

1572 Tilco Drive | Frederick, MD 21704

Tel.: 301.620.2033 | Fax: 301.662.5487 | info@stulz-ats.com

www.stulz-usa.com

Technical documentation subject to change without notice
QC-ACW0112 © STULZ Air Technology Systems, Inc.