

hybrid



Liquid chillers – Integrated Free Cooling – Heat Pump



Cooling Capacity from 50 to 300 tons

Advanced Modularity for Process Cooling



- Robust, high efficiency Shell and Tube evaporator reduces fouling and increases longevity.
- Electronic expansion valve (EEV);
- Brushless EC axial fans complete with protective grilles and die-cast aluminum blades;
- Wide range of Pump selections
- Advanced iPRO controller with VISOTOUCH display equipped with RS485, Ethernet, ModBus, TC/IP and RS232 connectivity.
- Next Generation refrigerant; R454b as standard and natural gases available on request
- Electrical cabinet approved and certified cULus
- Options Include: Blygold or Epoxy condenser coatings, Control Panel Cover, Heat Recovery, Remote controls, Master/Slave operations, RS485 Serial Communication, Casters, Manual Bypass, Automatic Bypass, Heat Pump, integral Free-Cooling, High Ambient Air-Cooled, and more!

HYBRID - R454B	Mod.	150+	175+	201+	224+	248+	278+	310+	356+	402+	449+
Cooling capacity (1)	Tons	45	56	63	68	82	93	99	110	127	142
Total power input	kW	44.7	57.4	68.7	79.9	84.5	94.3	109	127	138	157
Nominal flow rate	gpm	105	132	147	159	190	216	230	256	296	332
Evaporator Pressure Drop	PSI	4.4	4.5	5.2	4.4	4.9	3.7	5.00	3.6	4.5	6.2
EER Energy Efficiency Ratio	(BTU/h) / W	12.1	11.8	11.0	10.2	11.6	11.8	10.9	10.3	11.0	10.9
No. comp. / No. circuits	N°	4 / 2									
No. fans / fan diameter	N° / inch	4 / 28				6 / 28				8 / 28	
Fan air flow rate	CFM	35000	36300	36500	36400	54000	55000	54700	54400	73000	72600
Storage tank capacity	gallon	132	132	132	132	132	132	198	198	198	198
DIMENSIONS AND WEIGHT											
Width	inch	86	86	86	86	86	86	86	86	86	86
Depth	inch	154	154	154	154	154	154	154	154	197	197
Height	inch	99	99	99	99	99	99	99	99	99	99
Weight (2)	lb	4,900	5,100	5,300	5,350	7,000	7,175	7,420	7,500	9,320	9,500
Hydronic connections	Victaulic	3"	4"	4"	4"	5"	5"	5"	5"	6"	6"

HYBRID - R454B	Mod.	495+	557+	604+	673+	743+	805+	851+	898+	990+
Cooling capacity (1)	Tons	152	168	192	211	224	236	254	287	302
Total power input	kW	179	192	208	235	247	265	276	315	329
Nominal flow rate	gpm	354.9	381.7	444.7	493.1	532.7	559.2	603.2	682.4	717.7
Evaporator Pressure Drop	PSI	6.9	7.6	5.1	8.3	3.8	4.1	4.9	4.1	4.4
EER Energy Efficiency Ratio	(BTU/h) / W	10.2	10.5	11.1	10.8	10.9	10.7	11.0	10.9	11.0
No. comp. / No. circuits	N°	6 / 3					8 / 4			
No. fans / fan diameter	N° / inch	10 / 28		12 / 28		14 / 28		16 / 28		18 / 28
Fan air flow rate	CFM	72400	91000	110000	109000	127000	127000	146000	146000	164000
Storage tank capacity	gallon	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N
DIMENSIONS AND WEIGHT										
Width	inch	86	86	86	86	86	86	86	86	86
Depth	inch	241	241	285	285	333	333	361	361	403
Height	inch	99	99	99	99	99	99	99	99	99
Weight (2)	lb	11,220	11,610	13,150	13,600	15,900	15,950	17,300	18,200	20,100
Hydronic connections	Victaulic	6"	6"	6"	6"	6"	6"	6"	7"	7"

(1) Air cooled water chiller at working conditions 55/45F ambient 95F AHRI 550; Refrigerant used R454b; Voltage 460V 3ph 60Hz UL508a

(2) Empty weight of the unit in STANDARD configuration with shell & tube evaporator (without options/accessories). Tolerance +/-10%.



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