EN

Fluid Cooler HFCG Series

Industrial Adiabatic Fluid Cooler

Benefits:

- **Minimum Water Usage:** During higher outdoor temperatures, the system calculates the precise amount of water needed and adjusts for peak performance.
- **Cooling Tower Alternative:** Used for applications where reduced water consumption is required for 85 to 95°F (29 to 35°C) process cooling.
- **Premium Control Panel:** Weatherproof panel is compliant with C-UL508A codes to ensure complete protection and compliance with local safety and electrical code requirements.
- **Adaptive Fan Motors:** Regulate fan speed to maintain set point, using minimum amount of fan energy necessary for peak efficiency.
- **Closed Loop System:** Circulates fluid inside the coil tubes isolating it from ambient contamination and minimizing the potential for scale build-up from evaporation.
- **Energy Efficient:** For most of the year ambient air is circulated across the coils, eliminating the need for water evaporation at lower outdoor temperatures.
- **Fully Wetted Adiabatic Pads:** Uses full size, externally mounted, completely saturated adiabatic pads for maximum cooling with the least amount of water consumption.
- **Modular Design:** Easy to install, additional units can easily be added to expand cooling capacity.
- **Warranty:** 1 year parts and labor.

The HFCG Series adiabatic fluid coolers are designed to address the growing need for water conservation and reduced operating costs in industrial cooling applications. By significantly reducing water consumption compared to traditional evaporative cooling towers, these fluid coolers eliminate the need for costly water treatment systems and their associated maintenance.

Our HFCG Series fluid coolers are compact and easy to install, making them ideal for various industrial settings. Equipped with premium high-efficiency fans and intelligent variable-speed EC fan motor technology, these fluid coolers deliver energy-efficient operation. Additionally, our unique once-through adiabatic system provides superior cooling performance, especially during peak summer months, resulting in cooler outlet temperatures than conventional dry coolers. By leveraging our expertise and utilizing cutting-edge technologies, we offer a reliable and high-performing industrial fluid cooling solution.

THERMALCARE
PiovanGroup

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Benefits of the HFCG Series Adiabatic Fluid Cooler Features:

ADAPTIVE FAN MOTORS

Automatically adjust to demand, so fan speed is regulated to meet set point - using minimum energy for peak efficiency.

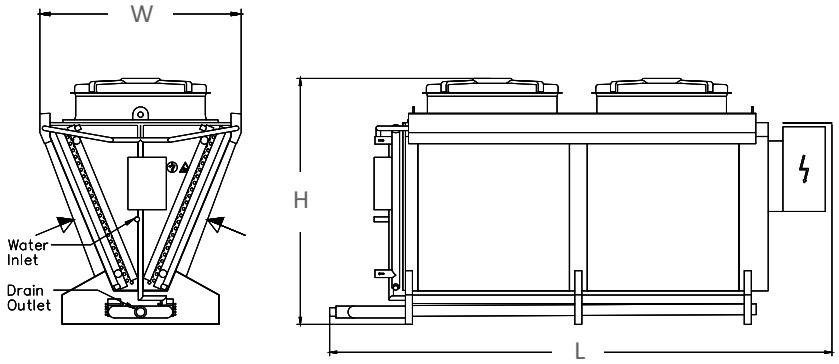
ADIABATIC COOLING

Adiabatic pads, externally mounted provide maximum cooling with minimum water consumption.

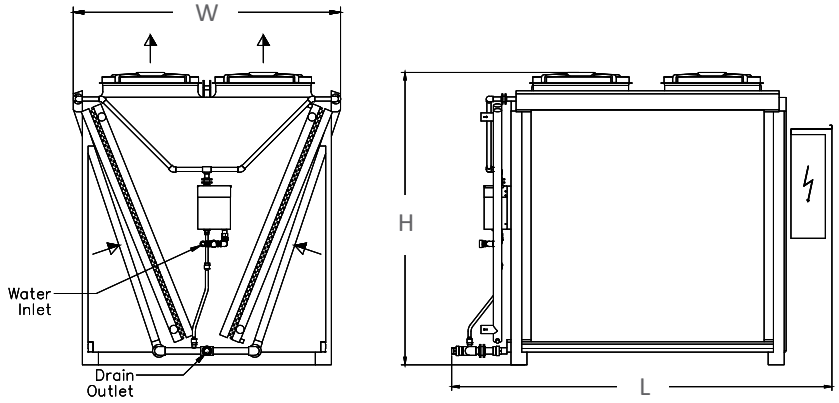
CLOSED LOOP SYSTEM

Isolation from external contamination so that scale build-up is minimized.

HFCG Series - 311990 Unit



HFCG Series - 311992 Unit



Technical Data

Model	Cooling Capacity Tons (kW)[1]	Nominal Flow gpm (lpm)	Fluid Pressure Drop psi (bar)	Dimensions L x W x H inch (mm)	Dry Weight lbs (kg)	Fluid Inlet (Qty x in)[2]	Fluid Outlet (Qty x in)[2]	Fan (Qty)	Total Fan Power hp (kW)	Total Air Flow cfm (M^3/h)	Sound Pressure dBA[3]
HFCG 1X2	49 (172)	127 (481)	8 (0.55)	141 x 53 x 69 (3,581 x 1,346 x 1,753)	1,100 (499)	2 x 2⅛	2 x 2⅛	2	6 (4.5)	29,900 (50,800)	55
HFCG 1X3	69 (243)	179 (678)	3 (0.21)	188 x 53 x 69 (4,775 x 1,346 x 1,753)	1,600 (726)	2 x 2⅝	2 x 2⅝	3	9 (6.7)	44,800 (76,120)	57
HFCG 1X4	96 (338)	250 (946)	8 (0.55)	235 x 53 x 69 (5,969 x 1,346 x 1,753)	2,100 (953)	2 x 3⅛	2 x 3⅛	4	12 (8.9)	59,789 (101,580)	58
HFCG 2X2	106 (373)	277 (1,049)	9 (0.62)	145 x 102 x 112 (3,683 x 2,591 x 2,845)	3,400 (1,542)	2 x 3⅛	2 x 3⅛	4	12 (8.9)	59,800 (101,600)	58
HFCG 2X3	158 (556)	414 (1,567)	9 (0.62)	195 x 102 x 112 (4,953 x 2,591 x 2,845)	4,700 (2,132)	2 x 4⅛	2 x 4⅛	6	18 (13.4)	89,700 (152,400)	60
HFCG 2X4	216 (760)	561 (2,124)	4 (0.28)	244 x 102 x 112 (6,198 x 2,591 x 2,845)	6,300 (2,858)	2 x 6⅛	2 x 6⅛	8	24 (17.9)	119,600 (203,200)	60
HFCG 2X5	275 (967)	716 (2,710)	9 (0.62)	294 x 102 x 112 (7,468 x 2,591 x 2,845)	7,800 (3,538)	2 x 6⅛	2 x 6⅛	10	30 (22.4)	149,500 (254,000)	61
HFCG 2X6	311 (1,094)	810 (3,066)	8 (0.55)	344 x 102 x 112 (8,738 x 2,591 x 2,845)	9,200 (4,173)	2 x 6⅛	2 x 6⅛	12	36 (26.9)	179,400 (304,800)	62
HFCG 2X7	329 (1,157)	857 (3,244)	11 (0.76)	394 x 102 x 112 (10,008 x 2,591 x 2,845)	9,900 (4,491)	2 x 6⅛	2 x 6⅛	14	42 (31.3)	202,600 (344,220)	62
HFCG 2X8	350 (1,231)	910 (3,445)	13 (0.90)	430 x 102 x 112 (10,922 x 2,591 x 2,845)	11,100 (5,035)	2 x 6⅛	2 x 6⅛	16	48 (35.8)	250,800 (426,110)	63
HFCG 2X9	397 (1,396)	1,033 (3,910)	18 (1.24)	479 x 102 x 112 (12,167 x 2,591 x 2,845)	12,000 (5,443)	2 x 6⅛	2 x 6⅛	18	54 (40.3)	282,100 (479,290)	64

[1]Cooling capacity based on cooling a 35% ethylene glycol solution from 105° to 95°F (41 to 35°C) using 77°F (25°C) entering air at sea level.
[2]Inlet and outlet connections are copper pipe stubs.
[3]Sound pressure at 32.8 feet (9,997 mm) horizontal from the unit at ground level.

Electrical Data

Model	Rated Voltage[1] FLA @ 230		Rated Voltage[1] FLA @ 460		Rated Voltage[1] FLA @ 575	
	MCA[2]	MOP[3]	MCA[2]	MOP[3]	MCA[2]	MOP[3]
HFCG 1X2	16	25	8	15	6	15
HFCG 1X3	24	30	12	20	13	15
HFCG 1X4	31	40	16	20	17	20
HFCG 2X2	31	40	16	20	17	20
HFCG 2X3	47	50	23	30	18	20
HFCG 2X4	63	70	31	35	24	25
HFCG 2X5	78	80	38	45	30	35
HFCG 2X6	94	100	45	50	36	40
HFCG 2X7	110	125	53	60	42	45
HFCG 2X8	125	150	61	70	47	50
HFCG 2X9	141	150	69	80	53	60

[1]Allowable voltage is ± 10% from rated voltage.
[2]MCA is Minimum Circuit Amps, used for minimum wire size requirement.
[3]MOP is Maximum Overcurrent Protection, used for sizing main power protection device.

Thermal Care is ISO 9001 Certified
Manufacturer reserves the right to change specification or design without notification or obligation.