GFS SERIES

UNCASED CEILING MOUNT HYDRONIC HEAT HIGH EFFICIENCY ECM DX COIL AIR HANDLER

Product Dimensions & Specifications



STANDARD FEATURES

- · Factory installed service switch
- · Factory installed freeze protection
- Rifled copper tube/enhanced aluminum fins DX and hydronic coils for more efficient heat transfer
- Schrader valve on DX and hydronic coils for "hisstest" leak check
- · Low leak cabinet design*

APPLICATION VERSATILITY

Built-in mounting tabs for ceiling or furdown mounting. Compatible with most brands of air conditioners and heat pumps. Optional louvered ceiling access panel has separate frame that attached to ceiling joists. Optional solid ceiling panel available for use with ducted return. Less than 2% air leakage (* when tested in accordance with ASHRAE standard 193 and AirMark installation instructions.)

MOTOR

Constant torque ECM speeds and torques are controlled by embedded motor software and factory preprogrammed. Direct drive blowers circulate air quietly and efficiently. Air moving system is plated mounted to allow for easy removal and service.

ELECTRONIC CONTROLS

Electronic board controls the functioning of system, increasing system reliability. Standard factory in-

stalled freeze stat wired into circulating pump control circuit. Standard factory installed fan time delay relay for increased efficiency and maximize capacity. Standard factory installed pump cycle timer circulates hot water every four hours to prevent coil freeze during off-cycle.

DX/HYDRONIC COILS

High efficiency rifled copper tube and enhanced aluminum fins provide maximum heat transfer. All coils are immersion tested at 500 PSI and nitrogen charged for maximum reliability. Schrader valve allows for "hiss-test" pre-installation pressure test. Available with factory installed orifice or TXV. Primary and secondary DX condensate drain with ¾" NPT connections. Powder-painted galvanized drain pan. Certified for use with R22 or R410A. Lead free construction. Hydronic coils suitable for potable water applications.

LOW LEAKAGE

Less than 2% air leakage from cabinet when installed in enclosure and tested in accordance with ASHRAE 193. Unit must be installed in accordance with AirMark installation instructions. Sturdy, fully insulated galvanized enclosure with ducted return available as option.



WARRANTY

One year limited parts warranty

OPTIONS

See options menu

MANUFACTURED IN THE USA

Representative image only. Some models may vary in appearance. Due to continuous product improvement, specifications are subject to change without notice.



Rev. Date: 03/08/19 © 2019 AirMark

HEATING AND COOLING PERFORMANCE & ELECTRICAL DATA PERFORMANCE DATA NOMINAL PRESS. BTU (1000) AT ENTERING WATER TEMPERATURE °F MODEL HEATING COOLING DROP GPM 120 140 180 (BTUS) (FT. WTR) 1 0.7 10.3 14.4 22.6 GFS 18 18,000 2 2.0 12.0 16.8 26.4 3 3.3 12.9 18.0 28.3 2 2.1 14.7 20.6 32.4 GFS 19/24 24,000 3 4.1 15.9 22.2 34.9 4 16.5 23.1 36.3 6.6 2 22.0 34.6 2.2 15.7 GFS 25 24,000 3 4.3 17.0 23.8 37.4 17.6 38.8 4 6.8 24.7 2 2.2 17.3 24.2 38.0 GFS 30 30,000 3 4.3 18.8 26.3 41.3 4 6.8 19.6 27.5 43.2 2 2.8 19.7 27.6 43.4 GFS 31/36 36,000 3 5.4 21.7 30.4 47.8 4 22.8 50.1 8.5 31.9

NOTES: Heat BTUH is at 70 degree EAT. 120 degree and 180 degree data is supplied for boiler applications. Heat BTUH output will not exceed output of water heater.

BLOWER DATA									
UNIT MODEL	SPEED TAP	MOTOR AMPS	MOTOR BHP	MOTOR HP	CFM VS. STATIC PRESSURE				
					0.1	0.2	0.3	0.4	0.5
	HIGH	2.7	0.20		770	730	700	670	640
GFS18	MEDIUM	2.2	0.17]	715	680	640	610	580
	LOW	1.6	0.12		585	540	490	465	415
	HIGH	3.2	0.24	1/2	950	915	875	830	800
GFS19/24	MEDIUM	2.6	0.20		820	780	745	710	670
	LOW	2.2	0.17		700	675	630	590	545
	HIGH	3.9	0.29		1005	965	920	850	780
GFS25	MEDIUM	2.7	0.20		845	795	755	720	680
	LOW	2.2	0.17		765	710	665	635	600
	HIGH	4.7	0.36		1180	1155	1100	1040	980
GFS30	MEDIUM	3.4	0.26		1085	1040	995	965	920
	LOW	3.2	0.24		1030	965	935	885	845
GFS31/36	HIGH	5.9	0.45	1/2(2)	1455	1375	1285	1195	1105
	MEDIUM	4.7	0.36		1300	1245	1185	1150	1075
	LOW	3.6	0.27			1030	975	915	860

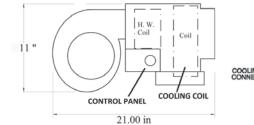
Units should not be applied to a system with less than 350 CFM/Ton airflow. Add 0.05 static when enclosure and/or ceiling panel are used.

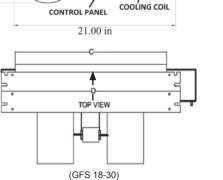
GFS 31 and GFS 36 have two motors and four blowers.

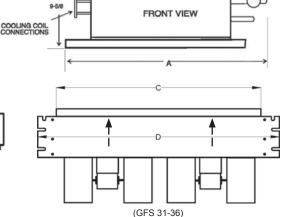
AIR HANDLER CHASSIS NOMENCLATURE						
G	F	S	18	G	-001	
AirMark Air Handler	F=120V Constant Torque ECM Motor	Configuration S= Uncased Ceiling Mount	Nominal Tonnage (KBTUH)	Metering Device 4 = R410A non-bleed A/C or H/P TXV 6 = R410A 20% bleed A/C or H/P TXV B = R22 20% bleed A/C or H/P TXV F = R22 Flo-rater G = R410A Flo-rater X = R22 non-bleed A/C or H/P TXV	Option Code	

HYDRONIC HEAT KIT NOMENCLATURE								
Z	Т	2	S	Р				
Water Heat Hydronic	Terminal Block	2 = 2 Row Hydronic Coil	GFS 18 - X GFS 19/24 - S GFS - 25/30 - M GFS 31/36 - L	P = Taco 006 Bronze Pump 8 = Taco 008 Bronze Pump L = Less Pump				

PHYSICAL DIMENSIONS								
UNIT MODEL	Α"	В"	C"	D"	Weight (lbs)	Skid Qty.		
GFS 18	42	37	30	37	86	8		
GFS 19-24	48	43	36	43	97	8		
GFS 25	55	50	42	50	105	8		
GFS 30	55	50	42	50	125	8		
GFS 31-36	62	56	48	56	135	8		







Access Door

VERSATILITY

Equipped with hidden frame feature. Fastens to the outside wall surface and does not have to perfectly match the hole opening. Frame screws are not visible after installation. Available in either solid (S) or louvered (L) style.

MATERIALS

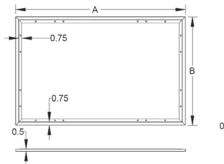
Galvanized steel construction with smooth powder paint finish.

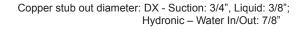
FILTER

20" x 20" x 1" field supplied.

WARRANTY

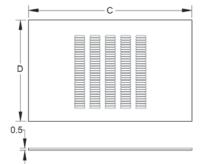
One-year limited parts warranty.





ACCESS DOOR DIMENSIONS

	PANEL	GFS A	FILTERS				
FOR USE WITH	MODEL	Α"	В"	C"	D"	(QTY)	
GFS 18	GAD-7(S/L)	49 1/2	27 1/2	47 1/2	26	1	
GFS 19/24	GAD-3(S/L)	55 1/2	27 1/2	53 1/2	26	1	
GFS 25/30	GAD-6(S/L)	63-1/2	27 1/2	61-1/2	26	2	
GFS 31/36	GAD-4(S/L)	70-1/2	27 1/2	68-1/2	26	2	



AIRMARK

WATER COIL

CONNECTIONS

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