

GBM SERIES

MULTI-POSITION HYDRONIC AIR HANDLERS

Product Dimensions & Specifications



WARRANTY

One year limited parts warranty

OPTIONS

See options menu

MANUFACTURED IN THE USA

STANDARD FEATURES

APPLICATION VERSATILITY

Upflow or horizontal right as shipped (field-convertible for down-flow or horizontal left applications).

LOW LEAKAGE CABINET

Less than 2% air leakage from cabinet when tested in accordance with ASHRAE standard 193. Unit must be installed according to AirMark installation instructions. Sturdy, fully insulated galvanized steel cabinet with knockout for duct return.

ELECTRONIC CONTROL BOARD

An electronic board controls the functioning of the system reducing moving parts. The board provides for various hot water supply source connections and the blower time delay to maximize heat/cool extraction. As an enhanced feature the pump circulates hot water every 6 hours to prevent coil freeze during off cycle.

MODULAR HYDRONIC HEAT KITS

Heat kits available with either circuit breakers or terminal blocks. Available in 2, 3 & 4 row. Modules are easily installed in the field using Molex plugs or can be ordered factory-installed. Freeze stat is wired into circulating pump control circuit. Controls are accessible from the front for easy service. Electrical connections can be made from the top or left. Disconnect does not protrude through the wall panel. Fan time delay relay standard for increased efficiency. Totally lead free constructed coil. Suitable for potable applications.

BLOWER

Direct drive multi-speed blowers circulate air quietly and efficiently. 3-speed motors allow for precise air volume selection. Motor speeds can be easily selected via motor terminals. Blowers mounted on rails so they can be easily removed for service.

DX COIL

High efficiency rifled copper tubes/enhanced aluminum fins provide maximum heat transfer. All coils immersion tested at 500 psi then nitrogen pressurized and factory sealed for maximum reliability. Liquid-line Schrader allows pre-installation pressure testing. Available with either orifice or TXV metering device factory installed. Field-installable bolt-on TXVs are also available. Rugged GLP drain pan on 60/61 models holds minimal condensate while eliminating the possibility of corrosion. Drain pan is UV safe. All drain connections are 3/4" FPT. Access door allows for coil cleaning.

Representative image only.

Some models may vary in appearance.

Due to continuous product improvement, specifications are subject to change without notice.



Rev. Date: 12/02/20

© 2020 AirMark



HEATING AND COOLING PERFORMANCE AND ELECTRICAL DATA

Model	PERFORMANCE DATA								ELECTRICAL DATA	
	Nominal Cooling	Hydronic Heat Kit Model	Rows	Coil P.D.	Heating Capacity BTU/HR Standard pump at 3.5 GPM Nominal Airflow				MINIMUM CIRCUIT AMPACITY (MCA)	MAX BREAKER OR FUSE SIZE
					3.5 GPM	Entering Water Temp				
				120		140	160	180		
GBM18/19	18,000	W*2SP	2	2.7	17770	24900	32250	39600	4.1	15
		W*3SP	3	2.1	21600	30500	39450	48400		
GBM24/25	24,000	W*2SP	2	2.7	20200	28500	36950	45400	4.1	15
		W*3SP	3	2.1	25000	35300	45800	56300		
GBM30/31	30,000	W*2SP	2	2.5	22100	31300	40645	49990	7.4	15
		W*3SP	3	1.9	27700	39100	50750	62400		
		W*4SP	4	1.1	31000	43900	57000	70100		
GBM36/37	36,000	W*2SP	2	2.5	23700	33500	43550	53600	7.4	15
		W*3SP	3	1.9	29800	42100	54700	67300		
		W*4SP	4	1.1	33500	47400	61600	75800		
GBM42/43	42,000	W*2LP	2	2.5	30200	42600	55300	68000	12.5	25
		W*3LP	3	1.9	36300	51400	65000	78600		
		W*4LP	4	1.1	43600	61600	77250	92900		
GBM48/49	48,000	W*2LP	2	2.1	31700	44800	58100	71400	12.5	25
		W*3LP	3	1.6	38200	54000	67300	80600		
		W*4LP	4	0.9	45900	64900	81450	98000		
GBM60/61	60,000	W*2LP	2	1.7	32900	46600	60500	74400	12.5	25
		W*3LP	3	1.3	39700	56200	70100	84000		
		W*4LP	4	0.8	47800	67600	84900	102200		
GBM23	24000	W*2SP	2	2.7	20200	28500	36950	45400	4.1	15
		W*3SP	3	2.1	25000	35300	45800	56300		
GBM35	36000	W*2MP	2	2.5	27040	38215	49610	61005	7.4	15
		W*3MP	3	1.9	33185	46900	59540	72180		
		W*4MP	4	1.1	38750	54805	69815	84820		
GBM47	48000	W*3XP	3	1.3	38195	54020	65095	76170	12.5	25
		W*4XP	4	0.8	48200	68125	83380	98640		
Model	PERFORMANCE DATA								ELECTRICAL DATA	
	Nominal Cooling	Hydronic Heat Kit Model	Rows	Coil P.D.	Heating Capacity BTU/HR High Pressure Drop pump at 5 GPM Nominal Airflow				MINIMUM CIRCUIT AMPACITY (MCA)	MAX BREAKER OR FUSE SIZE
					5 GPM	Entering Water Temp				
				120		140	160	180		
GBM18/19	18,000	W*2S8	2	3.9	18700	26400	34150	41900	4.1	15
		W*3S8	3	2.9	22900	32300	41750	51200		
GBM24/25	24,000	W*2S8	2	3.9	22600	31600	40550	49500	4.1	15
		W*3S8	3	2.9	26900	38000	49150	60300		
GBM30/31	30,000	W*2S8	2	3.5	23900	33800	43800	53800	7.4	15
		W*3S8	3	2.6	30100	42500	55100	67700		
		W*4S8	4	1.5	34000	48000	62300	76600		
GBM36/37	36,000	W*2S8	2	3.5	25800	36500	47350	58200	7.4	15
		W*3S8	3	2.6	32800	46300	60000	73700		
		W*4S8	4	1.5	37200	52600	68200	83800		
GBM42/43	42,000	W*2L8	2	3.5	33200	46800	60650	74500	12.5	25
		W*3L8	3	2.6	40500	57300	70850	84400		
		W*4L8	4	1.5	49000	69300	86450	103600		
GBM48/49	48,000	W*2L8	2	3	34900	49300	63900	78500	12.5	25
		W*3L8	3	2.2	42750	60450	74825	89200		
		W*4L8	4	1.3	52000	73500	91725	109950		
GBM60/61	60,000	W*2L8	2	2.5	36600	51800	67150	82500	12.5	25
		W*3L8	3	1.9	45000	63600	78800	94000		
		W*4L8	4	1.1	55000	77700	97000	116300		
GBM23	24000	W*2S8	2	3.9	22600	31600	40550	49500	4.1	15
		W*3S8	3	2.9	26900	38000	49150	60300		
GBM35	36000	W*2M8	2	3.5	29625	41875	54295	66715	7.4	15
		W*3M8	3	2.6	36870	52095	65800	79505		
		W*4M8	4	1.5	43535	61545	78050	94560		
GBM47	48000	W*3X8	3	1.9	43295	61300	73190	85075	12.5	25
		W*4X8	4	1.1	52360	78230	95070	111900		

HYDRONIC HEAT KIT NOMENCLATURE

W	C	2	S	P
Water Heat (Hydronic)	<u>Interruption</u> C = Circuit Breaker T = Terminal Block	<u>Row</u> 2 3 4	S = GBM18,19,23,24,25,30,31,36,37 M = GBM35 L = GBM42,43,48,49,60,61 X = GBM47	L = Less Pump and Check Valve P = with Standard Pump and Check Valve R = with 009 High Pressure Drop Pump 8 = with 008 High Pressure Drop Pump

BLOWER DATA

MODEL	MOTOR SPEED	MOTOR HP	MOTOR AMPS	MOTOR VOLTAGE	CFM V. EXTERNAL STATIC*				
					0.10	0.20	0.30	0.40	0.50
GBM18/19/24/25	LOW	1/5	2.8	120	780	740	700	645	585
	HIGH				850	800	745	685	620
GBM23	LOW	1/3	5.4		825	780	735	675	630
	HIGH				865	815	780	705	640
GBM 30/31/36/37	LOW	3/4	9.5		1000	980	920	870	800
	HIGH				1210	1190	1160	1130	1070
GBM35	LOW	3/4	9.5		1115	1075	1035	980	920
	HIGH				1235	1180	1135	1070	1000
GBM 42/43/48/49/60/61	LOW	3/4	9.5		1360	1340	1310	1280	1230
	MED				1530	1470	1420	1360	1310
	HIGH			1730	1670	1600	1540	1480	
GBM47	LOW	3/4	9.5	1350	1315	1300	1245	1205	
	MED			1500	1450	1400	1350	1315	
	HIGH			1670	1615	1560	1515	1450	

* Dry coil with filter in place

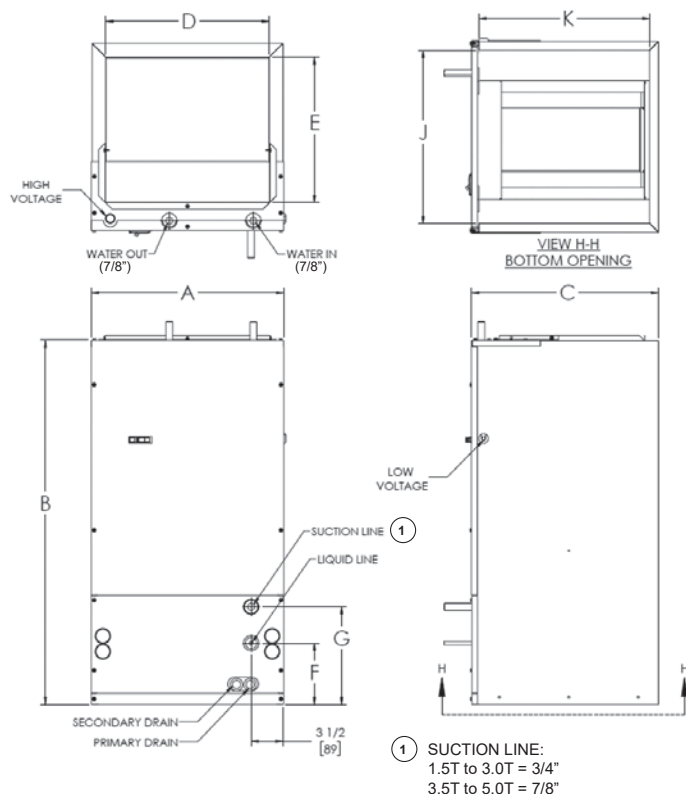
AIR HANDLER CHASSIS NOMENCLATURE

GBM	18	F	-001
GBM = 120V PSC Motor Multi-Position Hydronic Air Handler	Nominal tonnage (MBTUH)	<u>Metering device</u> 4 = R410A non-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

DIMENSIONS AND SPECIFICATIONS (In. [mm]) (Fig 1)

MODEL	A	B	C	D	E	F	G	J	K	FILTER SIZE	PISTON SIZE	SHIP WEIGHT (LBS)	SKID QTY
GBM18+W*	21 [533]	49-1/4 [1251]	20-1/2 [521]	18-3/4 [476]	12 [305]	7-1/4 [184]	10-1/4 [260]	18-1/2 [470]	18-1/2 [470]	16X20	0.055	99	4
GBM19/24/25+W*	21 [533]	49-1/4 [1251]	20-1/2 [521]	18-3/4 [476]	12 [305]	8-1/4 [209]	12-1/4 [311]	18-1/2 [470]	18-1/2 [470]	16X20	0.059	100	4
GBM30+W*	21 [533]	49-1/4 [1251]	20-1/2 [521]	18-3/4 [476]	12 [305]	8-1/4 [209]	14-1/4 [362]	18-1/2 [470]	18-1/2 [470]	16X20	0.068	118	4
GBM36+W*	21 [533]	49-1/4 [1251]	20-1/2 [521]	18-3/4 [476]	12 [305]	10-1/4 [260]	16-1/4 [412]	18-1/2 [470]	18-1/2 [470]	16X20	0.068	118	4
GBM31/37+W*	21 [533]	49-1/4 [1251]	20-1/2 [521]	18-3/4 [476]	12 [305]	10-1/4 [260]	16-1/4 [412]	18-1/2 [470]	18-1/2 [470]	16X20	0.074	147	4
GBM42+W*	24-1/2 [622]	57 [1448]	20-1/2 [521]	22-1/4 [565]	14-3/4 [375]	11 [279]	16 [406]	22 [559]	18-1/2 [470]	20X20	0.080	153	4
GBM48+W*	24-1/2 [622]	57 [1448]	20-1/2 [521]	22-1/4 [565]	14-3/4 [375]	13 [330]	18 [457]	22 [559]	18-1/2 [470]	20X20	0.084	180	4
GBM43/49/60+W*	24-1/2 [622]	57 [1448]	20-1/2 [521]	22-1/4 [565]	14-3/4 [375]	13 [330]	18 [457]	22 [559]	18-1/2 [470]	20X20	0.084	180	4
GBM61+W*	24-1/2 [622]	57 [1448]	20-1/2 [521]	22-1/4 [565]	14-3/4 [375]	15 [381]	20 [508]	22 [559]	18-1/2 [470]	20X20	0.092	200	4
GBM23+W*	21 [533]	40 [1016]	20-1/2 [521]	18 [457]	16 [406]	6-3/4 [171]	10-3/4 [273]	18-1/2 [470]	18-1/2 [470]	16X20	0.059	100	4
GBM35+W*	21 [533]	42 [1067]	23 [584]	18 [457]	19 [483]	8-3/4 [222]	12-3/4 [324]	18 [457]	20 [533]	20X20	0.068	170	4
GBM47+W*	21 [533]	48 [1219]	28 [711]	18 [457]	24 [610]	11-3/4 [298]	15-3/4 [400]	18 [457]	25 [660]	20X25	0.084	200	4

Figure 1



373 Atascocita Rd
 Humble, TX 77396
 Phone 800.423.9007
 Fax 281.441.6510
www.airmark-ac.com

⚠ WARNING
Cancer and
Reproductive Harm
www.P65Warnings.ca.gov