

MAQ Series

Vertical / Horizontal Air Handler

DX cooling / Hot water heating

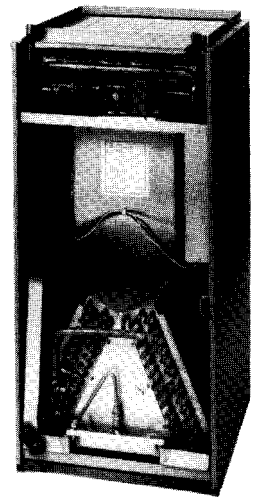
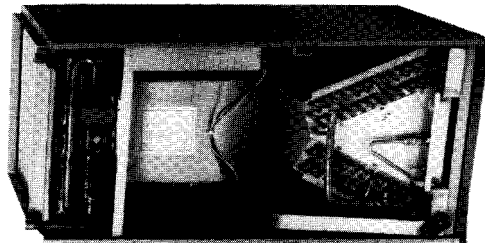
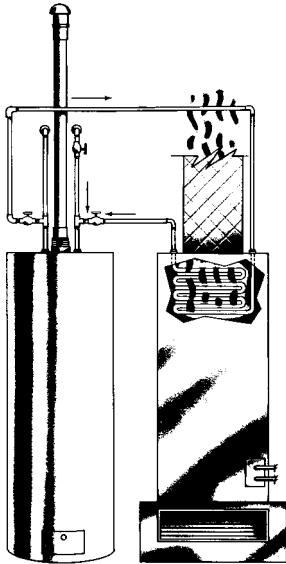
1-1/2 through 5 tons, up to 91,000 BTUH Heating



Description :

The **MAQ** series air handler is the first of its kind to offer high efficiency cooling as well as high efficiency heating for single family homes. Today's higher efficiency condensing units demand larger cooling coils for efficient operation. Optional field installed expansion valves are also available for optimum performance.

Each air handler includes a cooling coil, a separate hot water coil, circulating pump, air purge valve, hot water check valve, flue gas safety switch (except 60MAQ), 120V blower/motor, throwaway filter, and 24V control. This air handler converts a properly sized gas or oil-fired water heater into a highly efficient, multi - purpose appliance that can provide space heating as well as domestic hot water. When space heating is needed, the wall thermostat energizes the circulating pump which circulates hot water from the water heater to the hot water coil in the air handler. As the fan motor forces cool return air from the home over the hot water coil, the air absorbs heat from the hot water. This warm air (105-110 degrees) is then circulated throughout the duct system and into the home. The water leaving the hot water coil is then returned to the water heater to be reheated.



FEATURES:

1. Built-in circulating pump, air purge valve, and hot water check valve
2. Piston-type metering device on cooling coil
3. Optional expansion valve kit for cooling coil (field installed)
4. Flue gas safety switch (except 60MAQ)
5. Slide out hot water coil assembly for easier service
6. Copper tube heating and cooling coils
7. Compatible with all properly sized gas or oil-fired water heaters
8. Compatible with most major brands of split condensing units
9. Factory installed filter
10. Factory installed horizontal drain pan (right to left airflow)
11. Primary and secondary drain connections on cooling coil
12. Attractive baked on finish
13. Freeze protector for hot water coil is part # **941-1** (brings pump on below 38 degrees - field installed)

MAQ Series

DX COOLING

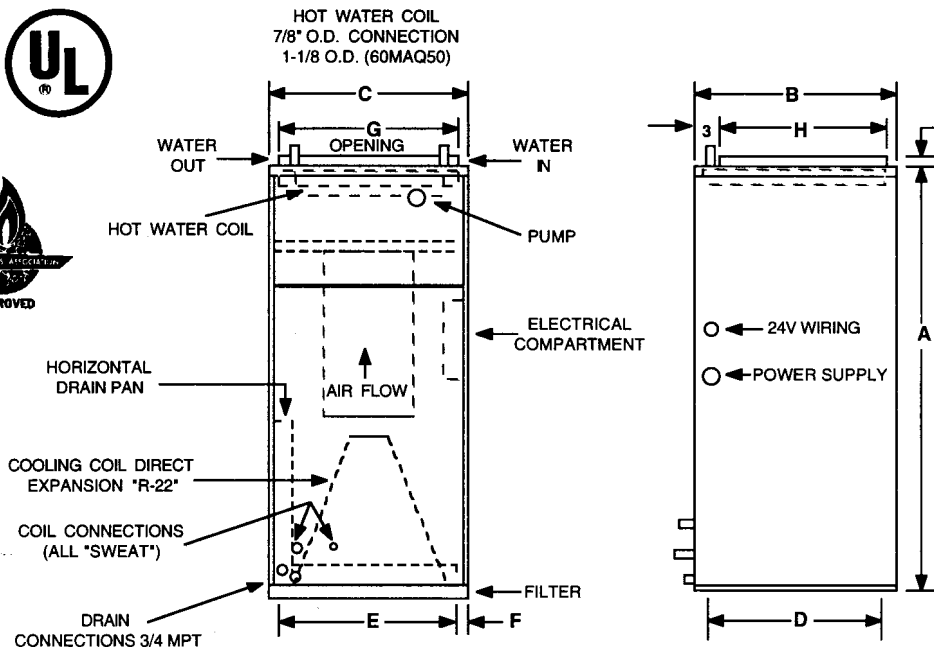
HOT WATER HEATING



EXPANSION VALVE KIT (field installed)	
KIT NUMBER	FITS
978-5	18/24MAQ
978-6	30/36MAQ
978-7	48MAQ
978-8	60MAQ

NOTE: Valves are external equalizing, internal bleed type (non Heat Pump)

COIL CONNECTIONS	LIQUID	SUCTION
18/24	3/8	5/8
30/36	3/8	3/4
48/60	1/2	7/8



PHYSICAL DIMENSIONS									
UNIT MODEL	A	B	C	D	E	F	G	H	FILTER SIZE
18MAQ 24MAQ	40	20	20	18-1/2	16	2	18	16	18 x 20 x 1
30MAQ 36MAQ	42	23	20	21-1/2	16	2	18	19	20 x 22 x 1
48MAQ	48	28	21-1/4	26-1/4	17-1/4	2	18	24	20 x 25 x 1
60MAQ	52	28	25-1/4	26-1/2	21-1/4	2	22	24	14 x 24 x 1 (2 required)

BLOWER DATA									
UNIT MODEL	MOTOR H.P. / AMP (120V)	MOTOR SPEED CONN.	CFM vs. EXTERNAL STATIC PRESSURE						
			0.05	0.10	0.20	0.30	0.40	0.50	
18MAQ	1/5 / 2.8	HIGH	810	780	715	650	580	500	
		MED	680	655	600	545	490	420	
		LOW	530	505	460	415	360	295	
24MAQ	1/5 / 5.1	HIGH	950	920	855	790	720	645	
		MED	860	835	785	720	650	580	
		LOW	780	755	705	650	590	510	
30MAQ	1/5 / 5.1	HIGH	1120	1095	1045	995	940	880	
		MED	850	840	810	780	740	690	
		LOW	680	670	655	625	585	510	
36MAQ	1/2 / 8.5	HIGH	1340	1310	1250	1190	1120	1050	
		MED	1290	1260	1200	1140	1080	1000	
		LOW	1200	1170	1120	1070	1010	940	
48MAQ	3/4 / 10.7	HIGH	1810	1780	1720	1660	1590	1530	
		MED	1570	1550	1510	1460	1400	1340	
		LOW	1280	1260	1220	1180	1130	1050	
60MAQ	1 / 11.5	HIGH	2160	2125	2055	1980	1895	1810	
		MED	1865	1840	1785	1710	1620	1525	
		LOW	1560	1540	1490	1435	1365	1260	

PERFORMANCE DATA							
UNIT MODEL	NOMINAL COOLING BTUH	COIL #	GPM (HTG.)	P.D. (FT. WTR)	BTUH (1000) AT ENTERING WATER TEMPERATURE		
					120°F	140°F	180°F
18MAQ-2	18,000	USM318AP	3-1/2	3.3	19.0	26.6	41.8
18MAQ-3	18,000	USM318AP	3-1/2	4.3	24.2	33.9	53.3
24MAQ-2	24,000	USM424AP	3-1/2	3.3	19.7	27.6	43.4
24MAQ-3	24,000	USM424AP	3-1/2	4.3	25.2	35.3	55.5
30MAQ-3	30,000	USM330AP	3-1/2	5.0	31.1	43.6	68.5
36MAQ-3	36,000	USM436AP	3-1/2	5.0	35.4	49.5	77.8
48MAQ-4 ⁽⁵⁾	42,000 / 48,000	USM348AP	3-1/2	3.4	45.9 / 49.1	64.2 / 68.8	100.8 / 108.1
60MAQ-4	60,000	USM460BP	7	8.8	65.0	91.0	143.0

- NOTES: 1. Motors are 120V (2 speed) but operate on high speed for both heating and cooling.
 2. Heating output of fan coil will not exceed net output of water heater.
 3. Approved for installation with 0" clearance to combustible materials.
 4. Heat BTUH is at 70 degree entering air temperature.
 5. Use 48MAQ for 3.5 ton applications and field-convert fan motor to low speed.
 6. See "USM" data sheet for additional coil information.

All technical specifications subject to change without notice.

Catalog No. MAQ794 (Replaces MAQ793)



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