

AGZ 080CH through 100CH, Packaged, R-410A

Physical data	AGZ model number					
	080CH		090CH		100CH	
Basic data	Circuit 1	Circuit 2	Circuit 1	Circuit 2	Circuit 1	Circuit 2
Unit capacity @ ARI conditions, tons (kW)*	79.5 (279.5)		86.3 (303.4)		97.8 (343.6)	
No. of refrigerant circuits	2		2		2	
Unit operating charge, R-22, lb (kg)	80 (36)	80 (36)	86 (39)	86 (39)	88 (40)	88 (40)
Cabinet dimensions, L × W × H, in (mm)	134.9 × 88.0 × 100.4 (3426 × 2235 × 2550)		134.9 × 88.0 × 100.4 (3426 × 2235 × 2550)		134.9 × 88.0 × 100.4 (3426 × 2235 × 2550)	
Unit operating weight, lb (kg)	5600 (2540)		5710 (2590)		5815 (2638)	
Unit shipping weight, lb (kg)	5545 (2515)		5645 (2561)		5750 (2608)	
Add'l weight if copper finned coils, lb (kg)	870 (395)		870 (395)		870 (395)	
Compressors						
Type	Tandem scrolls		Tandem scrolls		Tandem scrolls	
Nominal tonnage of each compressor	20.0	25.0	25.0	25.0	25.0 / 30.0	25.0 / 30.0
No. of compressors per circuit	2	2	2	2	2	2
Oil charge per compressor, oz (g)	158 (4479)	230 (6520)	230 (6520)	230 (6520)	230 (6520) 213 (6038)	230 (6520) 213 (6038)
Capacity reduction steps—percent of compressor displacement						
Staging, 4 stages, circuit #1 in lead	0-22-50-72-100		0-25-50-75-100		0-22-50-72-100	
Staging, 4 stages, circuit #2 in lead	0-28-50-78-100		0-25-50-75-100		0-22-50-72-100	
Condensers—high efficiency fin and tube type with integral subcooling						
Coil face area, ft ² (m ²)	66.2 (6.1)	66.2 (6.1)	78.8 (7.3)	78.8 (7.3)	78.8 (7.3)	78.8 (7.3)
Finned height × finned length, in (mm)	42 × 113.4 (1067 × 2880)	42 × 113.4 (1067 × 2880)	50 × 113.4 (1270 × 2880)	50 × 113.4 (1270 × 2880)	50 × 113.4 (1270 × 2880)	50 × 113.4 (1270 × 2880)
Fins per inch × rows deep	16 × 3	16 × 3	16 × 3	16 × 3	16 × 3	16 × 3
Pumpdown capacity, 90% full, lb (kg)	111 (50)	111 (50)	130 (59)	130 (59)	130 (59)	130 (59)
Condenser fans—direct drive propeller type						
No. of fans/circuit—fan dia., in (mm)	6–30 (762)		6–30 (762)		6–30 (762)	
No. of motors—hp (kW)**	6–2.0 (1.5)		6–2.0 (1.5)		6–2.0 (1.5)	
Fan and motor rpm, 60 Hz	1140		1140		1140	
60 Hz fan tip speed, fpm (m/s)	8950 (45)		8950 (45)		8950 (45)	
60 Hz total unit airflow, cfm (L/s)	65,178 (30,765)		65,178 (30,765)		65,178 (30,765)	
Evaporator—braced plate-to-plate						
No. of evaporators	1		1		1	
No. of refrigerant circuits	2		2		2	
Water volume, gallons (L)	6.6 (24.9)		7.5 (28.4)		8.0 (30.2)	
Maximum water pressure, psig (kpa)	653 (4502)		653 (4502)		653 (4502)	
Max. refrigerant working pressure, psig (kpa)	653 (4502)		653 (4502)		653 (4502)	
Water inlet/outlet viciautic connections, in (mm)***	3 (80)		3 (80)		3 (80)	
Drain—NPT int, in (mm)	Field		Field		Field	
Vent—NPT int, in (mm)	Field		Field		Field	

*Nominal capacity based on 95°F ambient air temperature and 54°F/44°F water range.

** Except for 380V/60 and 575V/60, hp = 2.0.

*** Water connection shown is nominal pipe size.