

Air-Cooled Scroll Compressor Chillers—10 to 190 Tons

- **Efficient**—Meets or exceeds ASHRAE Standard 90.1-2004
Up to 10.3 EER at full load and up to 14.7 EER at part load (IPLV)
- **Quiet**—All dBA ratings tested in accordance with ARI Standard 370. Less acoustical treatment can lower your project's cost
- **Reliable**—Tandem or trio scroll compressor sets per circuit have fewer moving parts. Dual circuits start at 30 tons
- **Controls flexibility**—MicroTech® II controls with our Open Choices™ feature for easy integration with the BAS of your choice
- **Optional low ambient operation range** down to -10°F for AGZ-C units
- **Remote evaporators** available
- **Pumping package option** available for AGZ-C model

For more detail, refer to Catalog AGZC or Catalog ACZ-AGZB. For the most current information, refer to www.mcquay.com.



Model AGZ-B—10 to 34 tons,
R-407C, Single Circuit



Model AGZ-C—30 to 190 tons,
R-410A, Dual Circuit
(unit shown with optional
louvers)



Available LONMARK certified



Modbus®

Features

Model AGZ 030C through 190C Dual-Circuit Air-Cooled Scroll Chiller (four-fan model illustrated)

Canted fan deck

- Improved efficiency
- Reduced recirculation

W-shaped coil

- High efficiency
- Service headroom

Control panel

Power panels

4 or 6 scroll compressors

- Low sound levels
- High efficiency
- Two refrigerant circuits

Brazed-plate evaporator (30 to 130 tons), Shell-and-tube evaporator (140 to 190 tons)

- Efficient
- Compact

Model AGZ 010B through AGZ 034B Single-Circuit Air Cooled Scroll Chiller

Brazed-plate evaporator

Tandem scroll compressor single refrigerant circuit

Air-Cooled Chillers

AGZ Air-Cooled Scroll Compressor Packaged Chiller—Physical Data

AGZ 010BS through 017BS, Packaged, R-407C

| Physical data | AGZ model number | | |
|--|--|--|--|
| | 010BS | 013BS | 017BS |
| Basic data | | | |
| Unit capacity @ ARI conditions, tons (kW) ¹ | 10.0 (36.2) | 13.7 (48.2) | 15.8 (55.6) |
| No. of refrigerant circuits | 1 | 1 | 1 |
| Unit operating charge, R-407C, lb (kg) | 13.8 (6.2) | 14.1 (6.4) | 18.0 (8.2) |
| Cabinet dimensions, L × W × H, in (mm) | 73.6 × 46.3 × 50.8 (1869 × 1176 × 1289) | 73.6 × 46.3 × 50.8 (1869 × 1176 × 1289) | 73.6 × 46.3 × 50.8 (1869 × 1176 × 1289) |
| Unit operating weight, lb (kg) | 1095 (498) | 1190 (541) | 1300 (591) |
| Unit shipping weight, lb (kg) | 1085 (493) | 1170 (532) | 1280 (582) |
| Add'l weight if copper finned coils, lb (kg) R-407C | 176 (80.0) | 176 (80.0) | 264 (120.0) |
| Compressors | | | |
| Type | Scroll | Scroll | Scroll |
| Nominal tons per compressor | 6.0 / 6.0 | 7.5 / 7.5 | 9.0 / 9.0 |
| Oil charge per compressor of a tandem set, oz (g) | 60 (1701) | 85 (2410) | 110 (3119) |
| Capacity reduction steps—percent of compressor displacement | | | |
| Standard staging | 0 – 50 – 100 | 0 – 50 – 100 | 0 – 50 – 100 |
| Condensers—high efficiency fin and tube type with integral subcooling | | | |
| Coil face area, one of two sides, ft ² (m ²) | 30.3 (2.8) | 30.3 (2.8) | 30.3 (2.8) |
| Finned height × finned length, in (mm) | 84 × 52 (2134 × 1321) | 84 × 52 (2134 × 1321) | 84 × 52 (2134 × 1321) |
| Fins per inch × rows deep: R-407C | 16 × 2 | 16 × 2 | 16 × 3 |
| Pumpdown capacity: R-407C, lb (kg) | 35.3 (16.0) | 35.3 (16.0) | 52.9 (24.0) |
| Condenser fans—direct drive propeller type | | | |
| No. of fans/circuit—fan dia., in (mm) | 2–26 (660) | 2–26 (660) | 2–26 (660) |
| No. of motors—hp (kW) ² | 2–1.0 (0.75) | 2–1.0 (0.75) | 2–1.0 (0.75) |
| Fan and motor rpm, 60 Hz | 1140 | 1140 | 1140 |
| 60 Hz total unit airflow, cfm (L/s) | 13,950 (6584) | 13,950 (6584) | 12,000 (5664) |
| Direct expansion evaporator—brazed plate-to-plate | | | |
| Connection size victaulic, in (mm) ³ | 2 (51) | 2 (51) | 2 (51) |
| Water volume, gallons (L) | 0.94 (3.6) | 1.66 (6.3) | 2.00 (7.6) |
| Maximum refrigerant working pressure, psig (kPa) | 450 (3103) | 450 (3103) | 450 (3103) |
| Maximum water pressure, psig (kPa) | 350 (2413) | 350 (2413) | 350 (2413) |

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

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

3. Water connection shown is nominal pipe size.

Air-Cooled Chillers

AGZ 020BS through 034BS, Packaged, R-407C

| Physical data | AGZ model number | | | |
|--|---|---|---|---|
| | 020BS | 025BS | 029BS | 034BS |
| Basic data | | | | |
| Unit capacity @ ARI conditions, tons (kW) ¹ | 20.6 (72.4) | 22.7 (79.8) | 27.7 (97.5) | 34.0 (119.5) |
| No. of refrigerant circuits | 1 | 1 | 1 | 1 |
| Unit operating charge, R-407C, lb (kg) | 34.0 (15.4) | 42.0 (19.1) | 47.0 (21.3) | 50.0 (22.7) |
| Cabinet dimensions, L × W × H, in (mm) | 106.2 × 46.3 × 50.8 (2697 × 1176) × 1289 | 106.2 × 46.3 × 50.8 (2697 × 1176) × 1289 | 106.2 × 46.3 × 58.8 (2697 × 1176 × 1493) | 106.2 × 46.3 × 58.8 (2697 × 1176 × 1493) |
| Unit operating weight, lb (kg) | 1590 (723) | 1635 (743) | 1830 (832) | 2315 (1052) |
| Unit shipping weight, lb (kg) | 1570 (714) | 1610 (732) | 1800 (818) | 2270 (1032) |
| Add'l weight if copper finned coils, lb (kg) | 350 (159) | 350 (159) | 435 (197) | 435 (197) |
| Compressors | | | | |
| Type | Scroll | Scroll | Scroll | Scroll |
| Nominal tons per compressor | 12.0 / 12.0 | 13.0 / 13.0 | 15.0 / 15.0 | 20.0 / 20.0 |
| Oil charge per compressor of a tandem set, oz (g) | 110 (3119) | 110 (3119) | 110 (3119) | 158 (4479) |
| Capacity reduction steps—percent of compressor displacement | | | | |
| Standard staging | 0–50–100 | 0–50–100 | 0–50–100 | 0–50–100 |
| Condensers—high efficiency fin and tube type with integral subcooling | | | | |
| Coil face area, one of two sides, ft ² (m ²) | 49.0 (4.6) | 49.0 (4.6) | 58.3 (5.4) | 58.3 (5.4) |
| Finned height × finned length, in (mm) | 84 × 84 (2134 × 2134) | 84 × 84 (2134 × 2134) | 100 × 84 (2545 × 2134) | 100 × 84 (2545 × 2134) |
| Fins per inch × rows deep: R-407C | 16 × 3 | 16 × 3 | 16 × 3 | 16 × 3 |
| Pumpdown capacity R-407C, lb (kg) | 56.9 (25.9) | 85.4 (38.8) | 101.6 (46.2) | 101.6 (46.2) |
| Condenser fans—direct drive propeller type | | | | |
| No. of fans/circuit—fan dia., in (mm) | 3–26 (660) | 3–26 (660) | 3–26 (660) | 3–26 (660) |
| No. of motors—hp (kW) ² | 3–1.0 (0.75) | 3–1.0 (0.75) | 3–1.0 (0.75) | 3–1.0 (0.75) |
| Fan and motor rpm, 60 Hz | 1140 | 1140 | 1140 | 1140 |
| 60 Hz total unit airflow, cfm (L/s) | 20,925 (9877) | 20,925 (9877) | 19,800 (9346) | 19,800 (9346) |
| Direct expansion evaporator—brazed plate-to-plate | | | | |
| Connection size victaulic, in (mm) ³ | 2 (51) | 2 (51) | 2 (51) | 2 (51) |
| Water volume, gallons (L) | 2.16 (8.2) | 3.05 (11.5) | 4.00 (15.1) | 5.55 (21.0) |
| Maximum refrigerant working pressure, psig (kPa) | 450 (3103) | 450 (3103) | 450 (3103) | 450 (3103) |
| Maximum water pressure, psig (kPa) | 350 (2413) | 350 (2413) | 350 (2413) | 350 (2413) |

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

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

3. Water connection shown is nominal pipe size.

Air-Cooled Chillers

AGZ Air-Cooled Scroll Compressor Chiller with Remote Evaporator—Physical Data

AGZ 010BM through 017BM, Remote Evaporator, R-407C

| Physical data | AGZ model number | | |
|--|--|--|--|
| | 010BM | 013BM | 017BM |
| Basic data | | | |
| Unit capacity @ ARI conditions, tons (kW) ^{1, 5} | 10.0 (36.2) | 13.7 (48.2) | 15.8 (55.6) |
| No. of refrigerant circuits | 1 | 1 | 1 |
| Unit operating charge, R-407C, lb (kg) ⁴ | 13.0 (5.9) | 14.0 (5.3) | 17.0 (7.7) |
| Cabinet dimensions, L × W × H, in (mm) | 73.6 × 46.3 × 50.8 (1869 × 1176 × 1289) | 73.6 × 46.3 × 50.8 (1869 × 1176 × 1289) | 73.6 × 46.3 × 50.8 (1869 × 1176 × 1289) |
| Unit operating weight, lb (kg) | 950 (431) | 1276 (579) | 1278 (580) |
| Unit shipping weight, lb (kg) | 1025 (465) | 1350 (613) | 1363 (619) |
| Add'l weight if copper finned coils, lb (kg) R-407C | 176 (80.0) | 176 (80.0) | 264 (120.0) |
| Compressors | | | |
| Type | Scroll | Scroll | Scroll |
| Nominal tons per compressor | 6.0 / 6.0 | 7.5 / 7.5 | 9.0 / 9.0 |
| Oil charge per compressor of a tandem set, oz (g) | 60 (1701) | 85 (2410) | 110 (3119) |
| Capacity reduction steps—percent of compressor displacement | | | |
| Standard staging | 0 – 50 – 100 | 0 – 50 – 100 | 0 – 50 – 100 |
| Condensers—high efficiency fin and tube type with integral subcooling | | | |
| Coil face area, one of two sides, ft ² (m ²) | 30.3 (2.8) | 30.3 (2.8) | 30.3 (2.8) |
| Finned height × finned length, in (mm) | 84 × 52 (2134 × 1321) | 84 × 52 (2134 × 1321) | 84 × 52 (2134 × 1321) |
| Fins per inch × rows deep: R-407C | 16 × 2 | 16 × 2 | 16 × 3 |
| Pumpdown capacity lb (kg) | 35.3 (16.0) | 35.3 (16.0) | 52.9 (24.0) |
| Condenser fans—direct drive propeller type | | | |
| No. of fans/circuit—fan dia., in (mm) | 2–26 (660) | 2–26 (660) | 2–26 (660) |
| No. of motors—hp (kW) ² | 2–1.0 (0.75) | 2–1.0 (0.75) | 2–1.0 (0.75) |
| Fan and motor rpm, 60 Hz | 1140 | 1140 | 1140 |
| 60 Hz total unit airflow, cfm (L/s) | 13,950 (6584) | 13,950 (6584) | 12,000 (5664) |
| Direct expansion evaporator—brazed plate-to-plate | | | |
| Connection size victaulic, in (mm) ³ | 2 (51) | 2 (51) | 2 (51) |
| Water volume, gallons (L) | 0.94 (3.6) | 1.66 (6.3) | 2.00 (7.6) |
| Liquid line connection braze, in | 1.125 | 1.125 | 1.125 |
| Suction line connection braze, in | 2.125 | 2.125 | 2.125 |
| Temperature sensor connection NPT, in | 0.75 | 0.75 | 0.75 |
| Dry weight, lbs (kg) | 50 (22) | 75 (34) | 87 (39) |
| Operating weight, lbs (kg) | 58 (26) | 88 (40) | 109 (49) |
| Maximum refrigerant working pressure, psig (kPa) | 450 (3103) | 450 (3103) | 450 (3103) |
| Maximum water pressure, psig (kPa) | 450 (3103) | 450 (3103) | 450 (3103) |
| Vent and drain connection | Field | Field | Field |

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

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

3. Water connection shown is nominal pipe size.

4. Units shipped with a holding charge. Operating charge quantity shown must have field piping charge added.

5. Length of interconnecting field piping affects unit performance.

Air-Cooled Chillers

AGZ 020BM through 034BM, Remote Evaporator, R-407C

| Physical data | AGZ model number | | | |
|--|---|---|---|---|
| | 020BM | 025BM | 029BM | 034BM |
| Basic data | | | | |
| Unit capacity @ ARI conditions, tons (kW) ^{1, 5} | 20.0 (72.4) | 22.7 (79.8) | 27.7 (97.5) | 34.0 (119.5) |
| No. of refrigerant circuits | 1 | 1 | 1 | 1 |
| Unit operating charge, R-407C, lb (kg) ⁴ | 38.0 (17.3) | 42.0 (19.1) | 47.0 (21.3) | 50.0 (22.7) |
| Cabinet dimensions, L × W × H, in (mm) | 106.2 × 46.3 × 50.8 (2697 × 1176 × 1289) | 106.2 × 46.3 × 50.8 (2697 × 1176 × 1289) | 106.2 × 46.3 × 58.8 (2697 × 1176 × 1494) | 106.2 × 46.3 × 58.8 (2697 × 1176 × 1494) |
| Unit operating weight, lb (kg) | 1459 (662) | 1478 (671) | 1622 (737) | 1817 (825) |
| Unit shipping weight, lb (kg) | 1558 (707) | 1576 (716) | 1719 (780) | 1914 (869) |
| Add'l weight if copper finned coils, lb (kg) R-407C | 426 (194.0) | 426 (194.0) | 508 (231.0) | 508 (231.0) |
| Compressors | | | | |
| Type | Scroll | Scroll | Scroll | Scroll |
| Nominal tons per compressor | 12.0 / 12.0 | 13.0 / 13.0 | 15.0 / 15.0 | 20.0 / 20.0 |
| Oil charge per compressor of a tandem set, oz (g) | 110 (3119) | 110 (3119) | 110 (3119) | 158 (4479) |
| Capacity reduction steps—percent of compressor displacement | | | | |
| Standard staging | 0 – 50 – 100 | 0 – 50 – 100 | 0 – 50 – 100 | 0 – 50 – 100 |
| Condensers—high efficiency fin and tube type with integral subcooling | | | | |
| Coil face area, one of two sides, ft ² (m ²) | 49.0 (4.6) | 49.0 (4.6) | 58.3 (5.4) | 58.3 (5.4) |
| Finned height × finned length, in (mm) | 84 × 84 (2134 × 2134) | 84 × 84 (2134 × 2134) | 100 × 84 (2545 × 2134) | 100 × 84 (2545 × 2134) |
| Fins per inch × rows deep:R-407C | 16 × 3 | 16 × 3 | 16 × 3 | 16 × 3 |
| Pumpdown capacity lb (kg) | 56.9 (25.9) [85.4 (38.8)] | 85.4 (38.8) | 101.6 (46.2) | 101.6 (46.2) |
| Condenser fans—direct drive propeller type | | | | |
| No. of fans/circuit—fan dia., in (mm) | 3–26 (660) | 3–26 (660) | 3–26 (660) | 3–26 (660) |
| No. of motors—hp (kW) ² | 3–1.0 (0.75) | 3–1.0 (0.75) | 3–1.0 (0.75) | 3–1.0 (0.75) |
| Fan and motor rpm, 60 Hz | 1140 | 1140 | 1140 | 1140 |
| 60 Hz total unit airflow, cfm (L/s) | 20,925 (9877) | 20,925 (9877) | 19,800 (9346) | 19,800 (9346) |
| Direct expansion evaporator—brazed plate-to-plate | | | | |
| Connection size victaulic, in (mm) ³ | 2 (51) | 2 (51) | 2 (51) | 2 (51) |
| Water volume, gallons (L) | 2.16 (8.2) | 3.05 (11.5) | 4.00 (15.1) | 5.55 (21.0) |
| Liquid line connection braze, in | 1.125 | 1.125 | 1.375 | 1.375 |
| Suction line connection braze, in | 2.125 | 2.125 | 2.125 | 2.125 |
| Temperature sensor connection NPT, in | 0.75 | 0.75 | 0.75 | 0.75 |
| Dry weight, lbs (kg) | 92 (42) | 124 (56) | 156 (71) | 211 (96) |
| Operating weight, lbs (kg) | 110 (50) | 148 (67) | 188 (85) | 255 (116) |
| Maximum refrigerant working pressure, psig (kPa) | 450 (3103) | 450 (3103) | 450 (3103) | 450 (3103) |
| Maximum water pressure, psig (kPa) | 350 (2413) | 350 (2413) | 350 (2413) | 350 (2413) |
| Vent and drain connection | Field | Field | Field | Field |

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

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

3. Water connection shown is nominal pipe size.

4. Units shipped with a holding charge. Operating charge quantity shown must have field piping charge added.

5. Length of interconnecting field piping affects unit performance.

Air-Cooled Chillers

AGZ Air-Cooled Scroll Compressor Packaged Chiller—Physical Data

AGZ 030CH through 040CH, Packaged, R-410A

| Physical data | AGZ model number | | | | | |
|--|---|----------------------------|---|----------------------------|---|----------------------------|
| | 030CH | | 035CH | | 040CH | |
| Basic data | Circuit 1 | Circuit 2 | Circuit 1 | Circuit 2 | Circuit 1 | Circuit 2 |
| Unit capacity @ ARI conditions, tons (kW) ¹ | 31.5 (110.7) | | 34.1 (119.9) | | 37.1 (130.4) | |
| No. of refrigerant circuits | 2 | | 2 | | 2 | |
| Unit operating charge, R-410A, lb (kg) | 30 (13) | 30 (13) | 30 (13) | 30 (13) | 39 (17) | 39 (17) |
| Cabinet dimensions, L × W × H, in (mm) | 94.4 × 88.0 × 100.4 (2398 × 2235 × 2550) | | 94.4 × 88.0 × 100.4 (2398 × 2235 × 2550) | | 94.4 × 88.0 × 100.4 (2398 × 2235 × 2550) | |
| Unit operating weight, lb (kg) | 3195 (1449) | | 3205 (1454) | | 3285 (1490) | |
| Unit shipping weight, lb (kg) | 3180 (1442) | | 3185 (1445) | | 3265 (1481) | |
| Add'l weight if copper finned coils, lb (kg) | 284 (129) | | 288 (130) | | 288 (130) | |
| Compressors | | | | | | |
| Type | Tandem scrolls | | Tandem scrolls | | Tandem scrolls | |
| Nominal tonnage of each compressor | 8.5 | 8.5 | 8.5 | 10.0 | 10.0 | 10.0 |
| No. of compressors per circuit | 2 | 2 | 2 | 2 | 2 | 2 |
| Oil charge per compressor, oz (g) | 110 (3119) | 110 (3119) | 110 (3119) | 110 (3119) | 110 (3119) | 110 (3119) |
| Capacity reduction steps—percent of compressor displacement | | | | | | |
| Staging, 4 stages, circuit #1 in lead | 0-25-50-75-100 | | 0-23-50-73-100 | | 0-25-50-75-100 | |
| Staging, 4 stages, circuit #2 in lead | 0-25-50-75-100 | | 0-27-50-73-100 | | 0-25-50-75-100 | |
| Condensers—high efficiency fin and tube type with integral subcooling | | | | | | |
| Coil face area, ft ² (m ²) | 26.3 (2.4) | 26.3 (2.4) | 26.3 (2.4) | 26.3 (2.4) | 44.1 (4.1) | 44.1 (4.1) |
| Finned height × finned length, in (mm) | 50 × 75.6 (1270 × 1920) | 50 × 75.6 (1270 × 1920) | 50 × 75.6 (1270 × 1920) | 50 × 75.6 (1270 × 1920) | 42 × 75.6 (1067 × 1920) | 42 × 75.6 (1067 × 1920) |
| Fins per inch × rows deep | 16 × 3 | 16 × 3 | 16 × 3 | 16 × 3 | 16 × 2 | 16 × 2 |
| Pumpdown capacity, 90% full lb (kg) | 40 (18) | 40 (18) | 40 (18) | 47 (21) | 47 (21) | 47 (21) |
| Condenser fans—direct drive propeller type | | | | | | |
| No. of fans/circuit—fan dia., in (mm) | 4–30 (762) | | 4–30 (762) | | 4–30 (762) | |
| No. of motors—hp (kW) ² | 4–1.5 (1.1) | | 4–1.5 (1.1) | | 4–1.5 (1.1) | |
| 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) | 24,316 (11,478) | | 39,600 (18,692) | | 39,600 (18,692) | |
| Evaporator—braced plate-to-plate | | | | | | |
| No. of evaporators | 1 | | 1 | | 1 | |
| No. of refrigerant circuits | 2 | | 2 | | 2 | |
| Water volume, gallons (L) | 1.9 (7.14) | | 2.2 (8.3) | | 2.4 (9.1) | |
| Maximum water pressure, psig (kPa) | 653 (4502) | | 653 (4502) | | 653 (4502) | |
| Max. refrig. working pressure, psig (kPa) | 653 (4502) | | 653 (4502) | | 653 (4502) | |
| Water inlet/outlet vicalc conn. in (mm) ³ | 2.5 (65) | | 2.5 (65) | | 2.5 (65) | |
| Drain—NPT int, in (mm) | Field | | Field | | Field | |
| Vent—NPT int, in (mm) | Field | | Field | | Field | |

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

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

3. Water connection shown is nominal pipe size.

Air-Cooled Chillers

AGZ 045CH through 060CH, Packaged, R-410A

| Physical data | AGZ model number | | | | | | | |
|--|---|----------------------------|---|----------------------------|---|----------------------------|---|----------------------------|
| | 045CH | | 050CH | | 055CH | | 060CH | |
| Basic data | Circuit 1 | Circuit 2 | Circuit 1 | Circuit 2 | Circuit 1 | Circuit 2 | Circuit 1 | Circuit 2 |
| Unit capacity @ ARI conditions, tons (kW) ¹ | 42.1 (148.0) | | 47.6 (167.4) | | 51.4 (180.7) | | 55.1 (193.7) | |
| No. of refrigerant circuits | 2 | | 2 | | 2 | | 2 | |
| Unit operating charge, R-410A, lb (kg) | 44 (20) | 44 (20) | 50 (23) | 50 (23) | 52 (24) | 52 (24) | 54 (25) | 54 (25) |
| Cabinet dimensions, L × W × H, in (mm) | 94.4 × 88.0 × 100.4 (2398 × 2235 × 2550) | | 94.4 × 88.0 × 100.4 (2398 × 2235 × 2550) | | 94.4 × 88.0 × 100.4 (2398 × 2235 × 2550) | | 94.4 × 88.0 × 100.4 (2398 × 2235 × 2550) | |
| Unit operating weight, lb (kg) | 3445 (1563) | | 3525 (1599) | | 3555 (1613) | | 3760 (1706) | |
| Unit shipping weight, lb (kg) | 3420 (1551) | | 3495 (1585) | | 3525 (1599) | | 3710 (1683) | |
| Add'l weight if copper finned coils, lb (kg) | 476 (216) | | 476 (216) | | 476 (130) | | 568 (258) | |
| Compressors | | | | | | | | |
| Type | Tandem scrolls | | Tandem scrolls | | Tandem scrolls | | Tandem scrolls | |
| Nominal tonnage of each compressor | 11.5 | 11.5 | 13.0 | 13.0 | 13.0 | 15.0 | 15.0 | 15.0 |
| No. of compressors per circuit | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Oil charge per compressor, oz | 110 (3119) | 110 (3119) | 110 (3119) | 110 (3119) | 110 (3119) | 110 (3119) | 110 (3119) | 110 (3119) |
| Capacity Reduction Steps—percent of compressor displacement | | | | | | | | |
| Staging, 4 stages, circuit #1 in lead | 0-25-50-75-100 | | 0-25-50-75-100 | | 0-23-50-73-100 | | 0-25-50-75-100 | |
| Staging, 4 stages, circuit #2 in lead | 0-25-50-75-100 | | 0-25-50-75-100 | | 0-27-50-77-100 | | 0-25-50-75-100 | |
| Condensers—high efficiency fin and tube type with integral subcooling | | | | | | | | |
| Coil face area, ft ² (m ²) | 44.1 (4.1) | 44.1 (4.1) | 44.1 (4.1) | 44.1 (4.1) | 44.1 (4.1) | 44.1 (4.1) | 44.1 (4.1) | 44.1 (4.1) |
| Finned height × finned length, in (mm) | 42 × 75.6 (1067 × 1920) | 42 × 75.6 (1067 × 1920) | 42 × 75.6 (1067 × 1920) | 42 × 75.6 (1067 × 1920) | 42 × 75.6 (1067 × 1920) | 42 × 75.6 (1067 × 1920) | 42 × 75.6 (1067 × 1920) | 42 × 75.6 (1067 × 1920) |
| Fins per inch × rows deep | 16 × 3 | 16 × 3 | 16 × 3 | 16 × 3 | 16 × 3 | 16 × 3 | 16 × 3 | 16 × 3 |
| Pumpdown capacity, 90% full lb (kg) | 69 (31) | 69 (31) | 69 (31) | 69 (31) | 69 (31) | 69 (31) | 69 (31) | 69 (31) |
| Condenser fans—direct drive propeller type | | | | | | | | |
| No. of fans/circuit—fan dia., in (mm) | 4–30 (762) | | 4–30 (762) | | 4–30 (762) | | 4–30 (762) | |
| No. of motors—hp (kW) ² | 4–1.5 (1.1) | | 4–1.5 (1.1) | | 4–1.5 (1.1) | | 4–1.5 (1.1) | |
| Fan and motor rpm, 60 Hz | 1140 | | 1140 | | 1140 | | 1140 | |
| 60 Hz fan tip speed, fpm (m/s) | 8950 (45) | | 8950 (45) | | 8950 (45) | | 8950 (45) | |
| 60 Hz total unit airflow, cfm (L/s) | 39,600 (18,692) | | 39,600 (18,692) | | 37,228 (17,572) | | 43,452 (20,510) | |
| Evaporator—braced plate-to-plate | | | | | | | | |
| No. of evaporators | 1 | | 1 | | 1 | | 1 | |
| No. of refrigerant circuits | 2 | | 2 | | 2 | | 2 | |
| Water volume, gallons (L) | 2.9 (11.0) | | 3.4 (12.8) | | 3.7 (14.0) | | 5.8 (22.1) | |
| Maximum water pressure, psig (kPa) | 653 (4502) | | 653 (4502) | | 653 (4502) | | 653 (4502) | |
| Max. refig. working pressure, psig (kPa) | 653 (4502) | | 653 (4502) | | 653 (4502) | | 653 (4502) | |
| Water inlet / outlet viciaulic conn., in (mm) ³ | 2.5 (65) | | 2.5 (65) | | 2.5 (65) | | 3 (80) | |
| Drain—NPT int, in (mm) | Field | | Field | | Field | | Field | |
| Vent—NPT int, in (mm) | Field | | Field | | Field | | Field | |

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

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

3. Water connection shown is nominal pipe size.

Air-Cooled Chillers

AGZ 065CH through 075CH, Packaged, R-410A

| Physical data | AGZ model number | | | | | |
|--|---|----------------------------|---|----------------------------|--|-----------------------------|
| | 065CH | | 070CH | | 075CH | |
| Basic data | Circuit 1 | Circuit 2 | Circuit 1 | Circuit 2 | Circuit 1 | Circuit 2 |
| Unit capacity @ ARI conditions, tons (kW) ¹ | 57.1 (200.8) | | 62.3 (219.1) | | 71.6 (251.7) | |
| No. of refrigerant circuits | 2 | | 2 | | 2 | |
| Unit operating charge, R-410A, lb (kg) | 58 (26) | 58 (26) | 60 (27) | 60 (27) | 80 (36) | 80 (36) |
| Cabinet dimensions, L × W × H, in (mm) | 94.4 × 88.0 × 100.4 (2398 × 2235 × 2550) | | 94.4 × 88.0 × 100.4 (2398 × 2235 × 2550) | | 134.9 × 88.0 × 100.4 (3426 × 2235 × 2550) | |
| Unit operating weight, lb (kg) | 3795 (1721) | | 4205 ((1907) | | 5510 (2499) | |
| Unit Shipping Weight, lb (kg) | 3740 (1696) | | 4150 (1882) | | 5460 (2477) | |
| Add'l weight if copper finned Coils, lb (kg) | 568 (258) | | 568 (258) | | 870 (395) | |
| Compressors | | | | | | |
| Type | Tandem scrolls | | Tandem scrolls | | Tandem scrolls | |
| Nominal tonnage of each compressor | 15.0 | 15.0 | 15.0 / 20.0 | 15. / 20.0 | 20.0 | 20.0 |
| No. of compressors per circuit | 2 | 2 | 2 | 2 | 2 | 2 |
| Oil charge per compressor, oz (g) | 110 (3119) | 110 (3119) | 110 (3119) 158 (4479) | 110 (3119) 158 (4479) | 158 (4479) | 158 (4479) |
| Capacity reduction steps—percent of compressor displacement | | | | | | |
| Staging, 4 stages, circuit #1 in lead | 0-25-50-75-100 | | 0-21-50-71-100 | | 0-25-50-75-100 | |
| Staging, 4 stages, circuit #2 in lead | 0-25-50-75-100 | | 0-28-50-78-100 | | 0-25-50-75-100 | |
| Condensers—high efficiency fin and tube type with integral subcooling | | | | | | |
| Coil face area, ft ² (m ²) | 52.6 (4.9) | 52.6 (4.9) | 52.6 (4.9) | 52.6 (4.9) | 66.2 (6.1) | 66.2 (6.1) |
| Finned height × finned length, in (mm) | 50 × 75.6 (1270 × 1920) | 50 × 75.6 (1270 × 1920) | 50 × 75.6 (1270 × 1920) | 50 × 75.6 (1270 × 1920) | 42 × 113.4 (1069 × 2880) | 42 × 113.4 (1069 × 2880) |
| Fins per inch × rows deep | 16 × 3 | 16 × 3 | 16 × 3 | 16 × 3 | 16 × 3 | 16 × 3 |
| Pumpdown capacity, 90% full, lb (kg) | 81 (37) | 81 (37) | 81 (37) | 81 (37) | 111 (50) | 111 (50) |
| Condenser fans—direct drive propeller type | | | | | | |
| No. of fans/circuit—fan dia., in (mm) | 4–30 (762) | | 4–30 (762) | | 6–30 (762) | |
| No. of motors—hp (kW) ² | 4–2.0 (1.5) | | 4–2.0 (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) | 43,452 (20,510) | | 43,452 (20,510) | | 65,178 (30,765) | |
| Evaporator—brazed plate-to-plate | | | | | | |
| No. of evaporators | 1 | | 1 | | 1 | |
| No. of refrigerant circuits | 2 | | 2 | | 2 | |
| Water volume, gallons (L) | 6.4 (24.3) | | 6.4 (24.3) | | 6.4 (24.3) | |
| 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 viciaulic conn., in (mm) ³ | 3 (80) | | 3 (80) | | 3 (80) | |
| Drain—NPT int, in (mm) | Field | | Field | | Field | |
| Vent—NPT int, in (mm) | Field | | Field | | Field | |

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

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

3. Water connection shown is nominal pipe size.

Air-Cooled Chillers

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) ¹ | 79.5 (279.5) | | 86.3 (303.4) | | 97.8 (343.6) | |
| No. of refrigerant circuits | 2 | | 2 | | 2 | |
| Unit operating charge, R-410A, 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) ² | 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 viciauic connections, in (mm) ³ | 3 (80) | | 3 (80) | | 3 (80) | |
| Drain—NPT int, in (mm) | Field | | Field | | Field | |
| Vent—NPT int, in (mm) | Field | | Field | | Field | |

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

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

3. Water connection shown is nominal pipe size.

Air-Cooled Chillers

AGZ 110CH through 130CH, Packaged, R-410A

| Physical data | AGZ model number | | | | | |
|--|--|-----------------------------|--|-----------------------------|--|-----------------------------|
| | 110CH | | 125CH | | 130CH | |
| Basic data | Circuit 1 | Circuit 2 | Circuit 1 | Circuit 2 | Circuit 1 | Circuit 2 |
| Unit capacity @ ARI conditions, tons (kW) ¹ | 104.2 (366.0) | | 114.3 (402) | | 124.7 (438) | |
| No. of refrigerant circuits | 2 | | 2 | | 2 | |
| Unit operating charge, R-410A, lb (kg) | 102 (46) | 102 (46) | 115 (52) | 115 (52) | 115 (52) | 115 (52) |
| Cabinet dimensions, L × W × H, in (mm) | 173.1 × 88.0 × 100.4 (4397 × 2235 × 2550) | | 173.1 × 88.0 × 100.4 (4397 × 2235 × 2550) | | 173.1 × 88.0 × 100.4 (4397 × 2235 × 2550) | |
| Unit operating weight, lb (kg) | 7270 (3298) | | 7500 (3402) | | 7665 (3477) | |
| Unit shipping weight, lb (kg) | 7200 (3266) | | 7420 (3366) | | 7570 (3434) | |
| Add'l weight if copper finned coils, lb (kg) | 1155 (524) | | 1155 (524) | | 1155 (524) | |
| Compressors | | | | | | |
| Type | Trio scrolls | | Trio scrolls | | Trio scrolls | |
| Nominal tonnage of each compressor | 20.0 | 20.0 | 20.0 | 25.0 | 25.0 | 25.0 |
| No. of compressors per circuit | 3 | 3 | 3 | 3 | 3 | 3 |
| Oil charge per compressor, oz (g) | 158 (4479) | 158 (4479) | 158 (4479) | 230 (6520) | 230 (6520) | 230 (6520) |
| Capacity reduction steps—percent of compressor displacement | | | | | | |
| Staging, 6 stages, circuit #1 in lead | 0-17-33-50-67-83-100 | | 0-15-33-48-67-81-100 | | 0-17-33-50-67-83-100 | |
| Staging, 6 stages, circuit #2 in lead | 0-17-33-50-67-83-100 | | 0-19-33-52-67-86-100 | | 0-17-33-50-67-83-100 | |
| Condensers—high efficiency fin and tube type with integral subcooling | | | | | | |
| Coil face area, ft ² (m ²) | 88.4 (8.2) | 88.4 (8.2) | 105.3 (9.8) | 105.3 (9.8) | 105.3 (9.8) | 105.3 (9.8) |
| Finned height × finned length, in (mm) | 42 × 151.6 (1069 × 3851) | 42 × 151.6 (1069 × 3851) | 50 × 151.6 (1270 × 3851) | 50 × 151.6 (1270 × 3851) | 50 × 151.6 (1270 × 3851) | 50 × 151.6 (1270 × 3851) |
| Fins per inch × rows deep | 16 × 3 | 16 × 3 | 16 × 3 | 16 × 3 | 16 × 3 | 16 × 3 |
| Pumpdown capacity, 90% full lb (kg) | 142 (64) | 142 (64) | 166 (75) | 166 (75) | 166 (75) | 166 (75) |
| Condenser fans—direct drive propeller type | | | | | | |
| No. of fans/circuit—fan dia., in (mm) | 8–30 (762) | | 8–30 (762) | | 8–30 (762) | |
| No. of motors—hp (kW) ² | 8–2.0 (1.5) | | 8–2.0 (1.5) | | 8–2.0 (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) | 86,904 (41,020) | | 86,904 (41,020) | | 86,904 (41,020) | |
| Evaporator—shell and tube | | | | | | |
| No. of evaporators | 1 | | 1 | | 1 | |
| No. of refrigerant circuits | 2 | | 2 | | 2 | |
| Water volume, gallons (L) | 8.5 (32.1) | | 9.6 (36.3) | | 10.5 (39.7) | |
| 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 viciauic connections, in (mm) ³ | 3 (80) | | 3 (80) | | 3 (80) | |
| Drain—NPT int, in (mm) | Field | | Field | | Field | |
| Vent—NPT int, in (mm) | Field | | Field | | Field | |

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

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

3. Water connection shown is nominal pipe size.

Air-Cooled Chillers

AGZ 140CH through 190CH, Packaged, R-410A

| Physical data | AGZ model number | | | | | | | |
|--|--|-----------------|--|-----------------|--|-----------------|--|-----------------|
| | 140CH | | 160CH | | 180CH | | 190CH | |
| Basic data | Circuit 1 | Circuit 2 | Circuit 1 | Circuit 2 | Circuit 1 | Circuit 2 | Circuit 1 | Circuit 2 |
| Unit capacity @ ARI conditions, tons (kW) ¹ | 133.7 (470.0) | | 151.5 (533) | | 169.3 (595) | | 180.1 (633) | |
| No. of refrigerant circuits | 2 | | 2 | | 2 | | 2 | |
| Unit operating charge, R-410A, lb (kg) | 125 (57) | 125 (57) | 130 (59) | 130 (59) | 130 (59) | 130 (59) | 140 (64) | 140 (64) |
| Cabinet dimensions, L × W × H, in (mm) | 218.6 × 88.0 × 100.4 (5552 × 2235 × 2545) | | 218.6 × 88.0 × 100.4 (5552 × 2235 × 2545) | | 218.6 × 88.0 × 100.4 (5552 × 2235 × 2545) | | 256.9 × 88.0 × 100.4 (6525 × 2235 × 2545) | |
| Unit operating weight, lb (kg) | 9530 (4323) | | 9680 (4391) | | 9830 (4459) | | 11070 (5023) | |
| Unit shipping weight, lb (kg) | 9155 (4153) | | 9320 (4228) | | 9470 (4296) | | 10585 (4803) | |
| Add'l weight if copper finned coils, lb (kg) | 1596 (724) | | 1596 (724) | | 1596 (724) | | 1915 (869) | |
| Compressors | | | | | | | | |
| Type | Trio scrolls | | Trio scrolls | | Trio scrolls | | Trio scrolls | |
| Nominal tonnage of each compressor | 25.0 | 25.0 | 25.0 | 30.0 | 30.0 | 30.0 | 30.0 | 30.0 |
| No. of compressors per circuit | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| Oil charge per compressor, oz (g) | 230 (6520) | 230 (6520) | 230 (6520) | 213 (6038) | 213 (6038) | 213 (6038) | 213 (6038) | 213 (6038) |
| Capacity reduction steps—percent of compressor displacement | | | | | | | | |
| Staging, 6 stages, circuit #1 in lead | 0-17-33-50-67-83-100 | | 0-15-33-48-67-81-100 | | 0-17-33-50-67-83-100 | | 0-17-33-50-67-83-100 | |
| Staging, 6 stages, circuit #2 in lead | 0-17-33-50-67-83-100 | | 0-19-33-52-67-86-100 | | 0-17-33-50-67-83-100 | | 0-17-33-50-67-83-100 | |
| Condensers—high efficiency fin and tube type with integral subcooling | | | | | | | | |
| Coil face area, ft ² (m ²) | 131.8 (12.2) | 131.8 (12.2) | 131.8 (12.2) | 131.8 (12.2) | 131.8 (12.2) | 131.8 (12.2) | 158.3 (14.7) | 158.3 (14.7) |
| Finned height × finned length, in (mm) | 50 × 190.0 (1270 × 4821) | | 50 × 190.0 (1270 × 4821) | | 50 × 190.0 (1270 × 4821) | | 50 × 228.0 (1270 × 5791) | |
| Fins per inch × rows deep | 16 × 3 | 16 × 3 | 16 × 3 | 16 × 3 | 16 × 3 | 16 × 3 | 16 × 3 | 16 × 3 |
| Pumpdown capacity, 90% full lb (kg) | 202 (92) | 202 (92) | 202 (92) | 202 (92) | 202 (92) | 202 (92) | 242 (110) | 242 (110) |
| Condenser fans—direct drive propeller type | | | | | | | | |
| No. of fans/circuit—fan dia., in (mm) | 10–30 (762) | | 10–30 (762) | | 10–30 (762) | | 12–30 (762) | |
| No. of motors—hp (kW) ² | 10–2.0 (1.5) | | 10–2.0 (1.5) | | 10–2.0 (1.5) | | 10–2.0 (1.5) | |
| Fan and motor rpm, 60 Hz | 1140 | | 1140 | | 1140 | | 1140 | |
| 60 Hz Fan tip speed, fpm (m/s) | 8950 (45) | | 8950 (45) | | 8950 (45) | | 8950 (45) | |
| 60 Hz Total unit airflow, cfm (L/s) | 108,630 (51,268) | | 108,630 (51,268) | | 108,630 (51,268) | | 130,356 (61,522) | |
| Evaporator—shell and tube | | | | | | | | |
| No. of evaporators | 1 | | 1 | | 1 | | 1 | |
| No. of refrigerant circuits | 2 | | 2 | | 2 | | 2 | |
| Water volume, gallons (L) | 58 (219.0) | | 58 (219.0) | | 58 (219.0) | | 57 (215) | |
| Maximum water pressure, psig (kPa) | 152 (1048) | | 152 (1048) | | 152 (1048) | | 152 (1048) | |
| Max. refrigerant working pressure, psig (kPa) | 450 (3103) | | 450 (3103) | | 450 (3103) | | 450 (3103) | |
| Water inlet/outlet viciaulic connections, in (mm) ³ | 8 (200) | | 8 (200) | | 1/2-in NPTF | | 1/2-in NPTF | |
| Drain—NPT int, in | 1/2-in NPTF | | 1/2-in NPTF | | 1/2-in NPTF | | 1/2-in NPTF | |
| Vent—NPT int, in (mm) | 1/2-in NPTF | | 1/2-in NPTF | | 1/2-in NPTF | | 1/2-in NPTF | |

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

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

3. Water connection shown is nominal pipe size.

Air-Cooled Chillers

AGZ Air-Cooled Scroll Compressor Chiller with Remote Evaporator—Physical Data

AGZ 030CB through 040CB, Remote Evaporator, R-410A

| Physical data | AGZ model number | | | | | |
|--|---|----------------------------|---|----------------------------|---|----------------------------|
| | 030CB | | 035CB | | 040CB | |
| Basic data | Circuit 1 | Circuit 2 | Circuit 1 | Circuit 2 | Circuit 1 | Circuit 2 |
| Unit capacity @ ARI conditions, tons (kW) ^{1, 5} | 31.5 (110.7) | | 34.1 (119.9) | | 37.1 (130.4) | |
| No. of refrigerant circuits | 2 | | 2 | | 2 | |
| Unit operating charge, R-410A, lb (kg) ⁴ | 30 (13.6) | 30 (13.6) | 30 (13.6) | 30 (13.6) | 39 (17.7) | 39 (17.7) |
| Cabinet dimensions, L × W × H, in (mm) | 94.4 × 88.0 × 100.4 (2398 × 2235 × 2550) | | 94.4 × 88.0 × 100.4 (2398 × 2235 × 2550) | | 94.4 × 88.0 × 100.4 (2398 × 2235 × 2550) | |
| Unit operating weight, lb (kg) | 3130 (1420) | | 3130 (1420) | | 3195 (1449) | |
| Unit shipping weight, lb (kg) | 3070 (1393) | | 3070 (1393) | | 3115 (1413) | |
| Add'l weight if copper finned coils, lb (kg) | 284 (129) | | 288 (130) | | 288 (130) | |
| Compressors | | | | | | |
| Type | Tandem scrolls | | Tandem scrolls | | Tandem scrolls | |
| Nominal tonnage of each compressor | 8.5 | 8.5 | 8.5 | 10.0 | 10.0 | 10.0 |
| No. of compressors per circuit | 2 | 2 | 2 | 2 | 2 | 2 |
| Oil charge per compressor, oz (g) | 110 (3119) | 110 (3119) | 110 (3119) | 110 (3119) | 110 (3119) | 110 (3119) |
| Capacity reduction steps—percent of compressor displacement | | | | | | |
| Staging, 4 stages, circuit #1 in lead | 0-25-50-75-100 | | 0-23-50-73-100 | | 0-25-50-75-100 | |
| Staging, 4 stages, circuit #2 in lead | 0-25-50-75-100 | | 0-27-50-73-100 | | 0-25-50-75-100 | |
| Condensers—high efficiency fin and tube type with integral subcooling | | | | | | |
| Coil face area, ft ² (m ²) | 26.3 (2.4) | 26.3 (2.4) | 26.3 (2.4) | 26.3 (2.4) | 44.1 (4.1) | 44.1 (4.1) |
| Finned height × finned length, in (mm) | 50 × 75.6 (1270 × 1920) | 50 × 75.6 (1270 × 1920) | 50 × 75.6 (1270 × 1920) | 50 × 75.6 (1270 × 1920) | 42 × 75.6 (1067 × 1920) | 42 × 75.6 (1067 × 1920) |
| Fins per inch × rows deep | 16 × 3 | 16 × 3 | 16 × 3 | 16 × 3 | 16 × 2 | 16 × 2 |
| Pumpdown capacity, 90% full lb (kg) | 40 (18) | 40 (18) | 40 (18) | 40 (18) | 47 (21) | 47 (21) |
| Condenser fans—direct drive propeller type | | | | | | |
| No. of fans/circuit—fan dia., in (mm) | 4–30 (762) | | 4–30 (762) | | 4–30 (762) | |
| No. of motors—hp (kW) ² | 4–1.5 (1.1) | | 4–1.5 (1.1) | | 4–1.5 (1.1) | |
| 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) | 24,316 (11,478) | | 39,600 (18,692) | | 39,600 (18,692) | |
| Remote evaporator—brazed plate-to-plate | | | | | | |
| No. of evaporators | 1 | | 1 | | 1 | |
| No. of refrigerant circuits | 2 | | 2 | | 2 | |
| Evaporator model | ACH130-90DX | | ACH130-102DQ | | ACH130-118DQ | |
| Dry weight, lb (kg) | 99 (45) | | 110 (50) | | 126 (57) | |
| Water volume, gallons (L) | 1.9 (7.14) | | 2.2 (8.3) | | 2.4 (9.1) | |
| Maximum water pressure, psig (kPa) | 653 (4502) | | 653 (4502) | | 653 (4502) | |
| Max. refrig. working pressure, psig (kPa) | 653 (4502) | | 653 (4502) | | 653 (4502) | |
| Water inlet/outlet victaulic conn. in (mm) ³ | 2.5 (65) | | 2.5 (65) | | 2.5 (65) | |
| Drain—NPT int, in (mm) | Field | | Field | | Field | |
| Vent—NPT int, in (mm) | Field | | Field | | Field | |

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

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

3. Water connection shown is nominal pipe size.

4. Units shipped with a holding charge. Operating charge quantity shown must have field piping charge added.

5. Length of interconnecting field piping affects unit performance.

Air-Cooled Chillers

AGZ 045CB through 060CB, Remote Evaporator, R-410A

| Physical data | AGZ model number | | | | | | | |
|--|---|----------------------------|---|----------------------------|---|----------------------------|---|----------------------------|
| | 045CB | | 050CB | | 055CB | | 060CB | |
| Basic data | Circuit 1 | Circuit 2 | Circuit 1 | Circuit 2 | Circuit 1 | Circuit 2 | Circuit 1 | Circuit 2 |
| Unit capacity @ ARI conditions, tons (kW) ^{1, 5} | 42.1 (148.0) | | 47.6 (167.4) | | 51.4 (180.7) | | 55.1 (193.7) | |
| No. of refrigerant circuits | 2 | | 2 | | 2 | | 2 | |
| Unit operating charge, R-410A, lb (kg) ⁴ | 47 (21) | 47 (21) | 50 (23) | 50 (23) | 52 (24) | 52 (24) | 54 (25) | 54 (25) |
| Cabinet dimensions, L × W × H, in (mm) | 94.4 × 88.0 × 100.4 (2398 × 2235 × 2550) | | 94.4 × 88.0 × 100.4 (2398 × 2235 × 2550) | | 94.4 × 88.0 × 100.4 (2398 × 2235 × 2550) | | 94.4 × 88.0 × 100.4 (2398 × 2235 × 2550) | |
| Unit operating weight, lb (kg) | 3360 (1524) | | 3380 (1533) | | 3410 (1547) | | 3430 (1556) | |
| Unit shipping weight, lb (kg) | 3260 (1479) | | 3280 (1488) | | 3300 (1497) | | 3320 (1506) | |
| Add'l weight if copper finned coils, lb (kg) | 476 (216) | | 476 (216) | | 476 (130) | | 568 (258) | |
| Compressors | | | | | | | | |
| Type | Tandem scrolls | | Tandem scrolls | | Tandem scrolls | | Tandem scrolls | |
| Nominal tonnage of each compressor | 11.5 | 11.5 | 13.0 | 13.0 | 13.0 | 15.0 | 15.0 | 15.0 |
| No. of compressors per circuit | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Oil charge per compressor, oz | 110 (3119) | 110 (3119) | 110 (3119) | 110 (3119) | 110 (3119) | 110 (3119) | 110 (3119) | 110 (3119) |
| Capacity Reduction Steps—percent of compressor displacement | | | | | | | | |
| Staging, 4 stages, circuit #1 in lead | 0-25-50-75-100 | | 0-25-50-75-100 | | 0-23-50-73-100 | | 0-25-50-75-100 | |
| Staging, 4 stages, circuit #2 in lead | 0-25-50-75-100 | | 0-25-50-75-100 | | 0-27-50-77-100 | | 0-25-50-75-100 | |
| Condensers—high efficiency fin and tube type with integral subcooling | | | | | | | | |
| Coil face area, ft ² (m ²) | 44.1 (4.1) | 44.1 (4.1) | 44.1 (4.1) | 44.1 (4.1) | 44.1 (4.1) | 44.1 (4.1) | 44.1 (4.1) | 44.1 (4.1) |
| Finned height × finned length, in (mm) | 42 × 75.6 (1067 × 1920) | 42 × 75.6 (1067 × 1920) | 42 × 75.6 (1067 × 1920) | 42 × 75.6 (1067 × 1920) | 42 × 75.6 (1067 × 1920) | 42 × 75.6 (1067 × 1920) | 42 × 75.6 (1067 × 1920) | 42 × 75.6 (1067 × 1920) |
| Fins per inch × rows deep | 16 × 3 | 16 × 3 | 16 × 3 | 16 × 3 | 16 × 3 | 16 × 3 | 16 × 3 | 16 × 3 |
| Pumpdown capacity, 90% full lb (kg) | 69 (31) | 69 (31) | 69 (31) | 69 (31) | 69 (31) | 69 (31) | 69 (31) | 69 (31) |
| Condenser fans—direct drive propeller type | | | | | | | | |
| No. of fans/circuit—fan dia., in (mm) | 4–30 (762) | | 4–30 (762) | | 4–30 (762) | | 4–30 (762) | |
| No. of motors—hp (kW) ² | 4–1.5 (1.1) | | 4–1.5 (1.1) | | 4–1.5 (1.1) | | 4–1.5 (1.1) | |
| Fan and motor rpm, 60 Hz | 1140 | | 1140 | | 1140 | | 1140 | |
| 60 Hz fan tip speed, fpm (m/s) | 8950 (45) | | 8950 (45) | | 8950 (45) | | 8950 (45) | |
| 60 Hz total unit airflow, cfm (L/s) | 39,600 (18,692) | | 39,600 (18,692) | | 37,228 (17,572) | | 43,452 (20,510) | |
| Remote evaporator—brazed plate-to-plate | | | | | | | | |
| No. of evaporators | 1 | | 1 | | 1 | | 1 | |
| No. of refrigerant circuits | 2 | | 2 | | 2 | | 2 | |
| Evaporator model | ACH130-138DQ | | ACH130-158DQ | | ACH130-178DQ | | ACH250-110DQ | |
| Dry weight, lb (kg) | 146 (66) | | 165 (75) | | 183 (83) | | 229 (104) | |
| Water volume, gallons (L) | 2.9 (11.0) | | 3.4 (12.8) | | 3.7 (14.0) | | 5.8 (22.1) | |
| Maximum water pressure, psig (kPa) | 653 (4502) | | 653 (4502) | | 653 (4502) | | 653 (4502) | |
| Max. refrig. working pressure, psig (kPa) | 653 (4502) | | 653 (4502) | | 653 (4502) | | 653 (4502) | |
| Water inlet / outlet victaulic conn., in (mm) ³ | 2.5 (65) | | 2.5 (65) | | 2.5 (65) | | 3 (80) | |
| Drain—NPT int, in (mm) | Field | | Field | | Field | | Field | |
| Vent—NPT int, in (mm) | Field | | Field | | Field | | Field | |

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

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

3. Water connection shown is nominal pipe size.

4. Units shipped with a holding charge. Operating charge quantity shown must have field piping charge added.

5. Length of interconnecting field piping affects unit performance.

Air-Cooled Chillers

AGZ 065CB through 075CB, Remote Evaporator, R-410A

| Physical data | AGZ model number | | | | | |
|--|---|----------------------------|---|----------------------------|--|-----------------------------|
| | 065CB | | 070CB | | 075CB | |
| Basic data | Circuit 1 | Circuit 2 | Circuit 1 | Circuit 2 | Circuit 1 | Circuit 2 |
| Unit capacity @ ARI conditions, tons (kW) ^{1, 5} | 57.1 (200.8) | | 62.3 (219.1) | | 71.6 (251.7) | |
| No. of refrigerant circuits | 2 | | 2 | | 2 | |
| Unit operating charge, R-410A, lb (kg) ⁴ | 58 (26) | 58 (26) | 60 (27) | 60 (27) | 80 (36) | 80 (36) |
| Cabinet dimensions, L × W × H, in (mm) | 94.4 × 88.0 × 100.4 (2398 × 2235 × 2550) | | 94.4 × 88.0 × 100.4 (2398 × 2235 × 2550) | | 134.9 × 88.0 × 100.4 (3426 × 2235 × 2550) | |
| Unit operating weight, lb (kg) | 3470 (1574) | | 3700 (1678) | | 5510 (2499) | |
| Unit shipping weight, lb (kg) | 3350 (1520) | | 3580 (1624) | | 5460 (2477) | |
| Add'l weight if copper finned Coils, lb (kg) | 568 (258) | | 568 (258) | | 870 (395) | |
| Compressors | | | | | | |
| Type | Tandem scrolls | | Tandem scrolls | | Tandem scrolls | |
| Nominal tonnage of each compressor | 15.0 | 15.0 | 15.0 / 20.0 | 15. / 20.0 | 20.0 | 20.0 |
| No. of compressors per circuit | 2 | 2 | 2 | 2 | 2 | 2 |
| Oil charge per compressor, oz (g) | 110 (3119) | 110 (3119) | 110 (3119) 158 (4479) | 110 (3119) 158 (4479) | 158 (4479) | 158 (4479) |
| Capacity reduction steps—percent of compressor displacement | | | | | | |
| Staging, 4 stages, circuit #1 in lead | 0-25-50-75-100 | | 0-25-50-75-100 | | 0-25-50-75-100 | |
| Staging, 4 stages, circuit #2 in lead | 0-25-50-75-100 | | 0-25-50-75-100 | | 0-25-50-75-100 | |
| Condensers—high efficiency fin and tube type with integral subcooling | | | | | | |
| Coil face area, ft ² (m ²) | 52.6 (4.9) | 52.6 (4.9) | 52.6 (4.9) | 52.6 (4.9) | 66.2 (6.1) | 66.2 (6.1) |
| Finned height × finned length, in (mm) | 50 × 75.6 (1270 × 1920) | 50 × 75.6 (1270 × 1920) | 50 × 75.6 (1270 × 1920) | 50 × 75.6 (1270 × 1920) | 42 × 113.4 (1069 × 2880) | 42 × 113.4 (1069 × 2880) |
| Fins per inch × rows deep | 16 × 3 | 16 × 3 | 16 × 3 | 16 × 3 | 16 × 3 | 16 × 3 |
| Pumpdown capacity, 90% full, lb (kg) | 81 (37) | 81 (37) | 81 (37) | 81 (37) | 111 (50) | 111 (50) |
| Condenser fans—direct drive propeller type | | | | | | |
| No. of fans/circuit—fan dia., in (mm) | 4–30 (762) | | 4–30 (762) | | 6–30 (762) | |
| No. of motors—hp (kW) ² | 4–2.0 (1.5) | | 4–2.0 (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) | 43,452 (20,510) | | 43,452 (20,510) | | 65,178 (30,765) | |
| Remote evaporator—brazed plate-to-plate | | | | | | |
| No. of evaporators | 1 | | 1 | | 1 | |
| No. of refrigerant circuits | 2 | | 2 | | 2 | |
| Evaporator model | ACH250-122DQ | | ACH250-122DQ | | ACH350-118DQ | |
| Dry weight, lb (kg) | 251 (114) | | 251 (114) | | 243 (110) | |
| Water volume, gallons (L) | 6.4 (24.3) | | 6.4 (24.3) | | 6.4 (24.3) | |
| 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 viciaulic conn., in (mm) ³ | 3 (80) | | 3 (80) | | 3 (80) | |
| Drain—NPT int, in (mm) | Field | | Field | | Field | |
| Vent—NPT int, in (mm) | Field | | Field | | Field | |

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

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

3. Water connection shown is nominal pipe size.

4. Units shipped with a holding charge. Operating charge quantity shown must have field piping charge added.

5. Length of interconnecting field piping affects unit performance.

Air-Cooled Chillers

AGZ 080CB through 100CB, Remote Evaporator, R-410A

| Physical data | AGZ model number | | | | | |
|--|--|-----------------------------|--|-----------------------------|--|-----------------------------|
| | 080CB | | 090CB | | 100CB | |
| Basic data | Circuit 1 | Circuit 2 | Circuit 1 | Circuit 2 | Circuit 1 | Circuit 2 |
| Unit capacity @ ARI conditions, tons (kW) ^{1, 5} | 79.5 (279.5) | | 86.3 (303.4) | | 97.8 (343.6) | |
| No. of refrigerant circuits | 2 | | 2 | | 2 | |
| Unit operating charge, R-410A, lb (kg) ⁴ | 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) | 5320 (2413) | | 5390 (2445) | | 5480 (2486) | |
| Unit shipping weight, lb (kg) | 5160 (2341) | | 5220 (2368) | | 5300 (2404) | |
| 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) ² | 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) | |
| Remote evaporator—brazed plate-to-plate | | | | | | |
| No. of evaporators | 1 | | 1 | | 1 | |
| No. of refrigerant circuits | 2 | | 2 | | 2 | |
| Evaporator model | ACH350-126DQ | | ACH350-150DQ | | ACH350-162DQ | |
| Dry weight | 258 (117) | | 287 (130) | | 324 (147) | |
| 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 vicaltic connections, in (mm) ³ | 3 (80) | | 3 (80) | | 3 (80) | |
| Drain—NPT int, in (mm) | Field | | Field | | Field | |
| Vent—NPT int, in (mm) | Field | | Field | | Field | |

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

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

3. Water connection shown is nominal pipe size.

4. Units shipped with a holding charge. Operating charge quantity shown must have field piping charge added.

5. Length of interconnecting field piping affects unit performance.

Air-Cooled Chillers

AGZ 110CB through 130CB, Remote Evaporator, R-410A

| Physical data | AGZ model number | | | | | |
|--|--|-----------------------------|--|-----------------------------|--|-----------------------------|
| | 110CB | | 125CB | | 130CB | |
| Basic data | Circuit 1 | Circuit 2 | Circuit 1 | Circuit 2 | Circuit 1 | Circuit 2 |
| Unit capacity @ ARI conditions, tons (kW) ^{1, 5} | 104.2 (366.0) | | 114.3 (402) | | 124.7 (438) | |
| No. of refrigerant circuits | 2 | | 2 | | 2 | |
| Unit operating charge, R-410A, lb (kg) ⁴ | 102 (46) | 102 (46) | 115 (52) | 115 (52) | 115 (52) | 115 (52) |
| Cabinet dimensions, L × W × H, in (mm) | 173.1 × 88.0 × 100.4 (4397 × 2235 × 2550) | | 173.1 × 88.0 × 100.4 (4397 × 2235 × 2550) | | 173.1 × 88.0 × 100.4 (4397 × 2235 × 2550) | |
| Unit operating weight, lb (kg) | 6035 (2737) | | 6215 (2819) | | 6315 (2864) | |
| Unit shipping weight, lb (kg) | 5830 (2644) | | 5995 (2719) | | 6085 (2760) | |
| Add'l weight if copper finned coils, lb (kg) | 1155 (524) | | 1155 (524) | | 1155 (524) | |
| Compressors | | | | | | |
| Type | Trio scrolls | | Trio scrolls | | Trio scrolls | |
| Nominal tonnage of each compressor | 20.0 | 20.0 | 20.0 | 25.0 | 25.0 | 25.0 |
| No. of compressors per circuit | 3 | 3 | 3 | 3 | 3 | 3 |
| Oil charge per compressor, oz (g) | 158 (4479) | 158 (4479) | 158 (4479) | 230 (6520) | 230 (6520) | 230 (6520) |
| Capacity reduction steps—percent of compressor displacement | | | | | | |
| Staging, 6 stages, circuit #1 in lead | 0-17-33-50-67-83-100 | | 0-15-33-48-67-81-100 | | 0-17-33-50-67-83-100 | |
| Staging, 6 stages, circuit #2 in lead | 0-17-33-50-67-83-100 | | 0-19-33-52-67-86-100 | | 0-17-33-50-67-83-100 | |
| Condensers—high efficiency fin and tube type with integral subcooling | | | | | | |
| Coil face area, ft ² (m ²) | 88.4 (8.2) | 88.4 (8.2) | 105.3 (9.8) | 105.3 (9.8) | 105.3 (9.8) | 105.3 (9.8) |
| Finned height × finned length, in (mm) | 42 × 151.6 (1069 × 3851) | 42 × 151.6 (1069 × 3851) | 50 × 151.6 (1270 × 3851) | 50 × 151.6 (1270 × 3851) | 50 × 151.6 (1270 × 3851) | 50 × 151.6 (1270 × 3851) |
| Fins per inch × rows deep | 16 × 3 | 16 × 3 | 16 × 3 | 16 × 3 | 16 × 3 | 16 × 3 |
| Pumpdown capacity, 90% full lb (kg) | 142 (64) | 142 (64) | 166 (75) | 166 (75) | 166 (75) | 166 (75) |
| Condenser fans—direct drive propeller type | | | | | | |
| No. of fans/circuit—fan dia., in (mm) | 8–30 (762) | | 8–30 (762) | | 8–30 (762) | |
| No. of motors—hp (kW) ² | 8–2.0 (1.5) | | 8–2.0 (1.5) | | 8–2.0 (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) | 86,904 (41,020) | | 86,904 (41,020) | | 86,904 (41,020) | |
| Remote evaporator—shell and tube | | | | | | |
| No. of evaporators | 1 | | 1 | | 1 | |
| No. of refrigerant circuits | 2 | | 2 | | 2 | |
| Evaporator model | ACH350-162DQ | | ACH350-182DQ | | ACH350-210DQ | |
| Dry weight, lb (kg) | 324 (147) | | 359 (163) | | 410 (186) | |
| Water volume, gallons (L) | 8.5 (32.1) | | 9.6 (36.3) | | 10.5 (39.7) | |
| 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 viciaulic connections, in (mm) ³ | 3 (80) | | 3 (80) | | 3 (80) | |
| Drain—NPT int, in (mm) | Field | | Field | | Field | |
| Vent—NPT int, in (mm) | Field | | Field | | Field | |

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

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

3. Water connection shown is nominal pipe size.

4. Units shipped with a holding charge. Operating charge quantity shown must have field piping charge added.

5. Length of interconnecting field piping affects unit performance.

Air-Cooled Chillers

AGZ 140CB through 190CB, Remote Evaporator, R-410A

| Physical data | AGZ model number | | | | | | | |
|--|--|------------|--|------------|--|------------|--|------------|
| | 140CB | | 160CB | | 180CB | | 190CB | |
| Basic data | Circuit 1 | Circuit 2 | Circuit 1 | Circuit 2 | Circuit 1 | Circuit 2 | Circuit 1 | Circuit 2 |
| Unit capacity @ ARI conditions, tons (kW) ^{1, 5} | 133.7 (470.0) | | 151.5 (533) | | 169.3 (595) | | 180.1 (633) | |
| No. of refrigerant circuits | 2 | | 2 | | 2 | | 2 | |
| Unit operating charge, R-410A, lb (kg) ⁴ | 125 (57) | 125 (57) | 130 (59) | 130 (59) | 130 (59) | 130 (59) | 140 (64) | 140 (64) |
| Cabinet dimensions, L × W × H, in (mm) | 218.6 × 88.0 × 100.4 (5552 × 2235 × 2545) | | 218.6 × 88.0 × 100.4 (5552 × 2235 × 2545) | | 218.6 × 88.0 × 100.4 (5552 × 2235 × 2545) | | 256.9 × 88.0 × 100.4 (6525 × 2235 × 2545) | |
| Unit operating weight, lb (kg) | 8380 (3801) | | 8510 (3860) | | 8630 (3915) | | 10,170 (4614) | |
| Unit shipping weight, lb (kg) | 8120 (3683) | | 8240 (3738) | | 8350 (3788) | | 9685 (4394) | |
| Add'l weight if copper finned coils, lb (kg) | 1596 (724) | | 1596 (724) | | 1596 (724) | | 1915 (869) | |
| Compressors | | | | | | | | |
| Type | Trio scrolls | | Trio scrolls | | Trio scrolls | | Trio scrolls | |
| Nominal tonnage of each compressor | 25.0 | 25.0 | 25.0 | 30.0 | 30.0 | 30.0 | 30.0 | 30.0 |
| No. of compressors per circuit | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| Oil charge per compressor, oz (g) | 230 (6520) | 230 (6520) | 230 (6520) | 213 (6038) | 213 (6038) | 213 (6038) | 213 (6038) | 213 (6038) |
| Capacity reduction steps—percent of compressor displacement | | | | | | | | |
| Staging, 6 stages, circuit #1 in lead | 0-17-33-50-67-83-100 | | 0-15-33-48-67-81-100 | | 0-17-33-50-67-83-100 | | 0-17-33-50-67-83-100 | |
| Staging, 6 stages, circuit #2 in lead | 0-17-33-50-67-83-100 | | 0-19-33-52-67-86-100 | | 0-17-33-50-67-83-100 | | 0-17-33-50-67-83-100 | |
| Condensers—high efficiency fin and tube type with integral subcooling | | | | | | | | |
| Coil face area, ft ² (m ²) | 131.8 (12.2) | | 131.8 (12.2) | | 131.8 (12.2) | | 158.3 (14.7) | |
| Finned height × finned length, in (mm) | 50 × 190.0 (1270 × 4821) | | 50 × 190.0 (1270 × 4821) | | 50 × 190.0 (1270 × 4821) | | 50 × 228.0 (1270 × 5791) | |
| Fins per inch × rows deep | 16 × 3 | 16 × 3 | 16 × 3 | 16 × 3 | 16 × 3 | 16 × 3 | 16 × 3 | 16 × 3 |
| Pumpdown capacity, 90% full lb (kg) | 202 (92) | 202 (92) | 202 (92) | 202 (92) | 202 (92) | 202 (92) | 242 (110) | 242 (110) |
| Condenser fans—direct drive propeller type | | | | | | | | |
| No. of fans/circuit—fan dia., in (mm) | 10–30 (762) | | 10–30 (762) | | 10–30 (762) | | 12–30 (762) | |
| No. of motors—hp (kW) ² | 10–2.0 (1.5) | | 10–2.0 (1.5) | | 10–2.0 (1.5) | | 12–2.0 (1.5) | |
| Fan and motor rpm, 60 Hz | 1140 | | 1140 | | 1140 | | 1140 | |
| 60 Hz Fan tip speed, fpm (m/s) | 8950 (45) | | 8950 (45) | | 8950 (45) | | 8950 (45) | |
| 60 Hz Total unit airflow, cfm (L/s) | 108,630 (51,268) | | 108,630 (51,268) | | 108,630 (51,268) | | 130,356 (61,522) | |
| Remote evaporator—shell and tube | | | | | | | | |
| No. of evaporators | 1 | | 1 | | 1 | | 1 | |
| No. of refrigerant circuits | 2 | | 2 | | 2 | | 2 | |
| Evaporator model | EV34191111NX/9 | | EV34191111NX/9 | | EV34191111NX/9 | | EV34191212NX/7 | |
| Dry weight, lb (kg) | 870 (395) | | 870 (395) | | 870 (395) | | 900 (408) | |
| Water volume, gallons (L) | 58 (219.0) | | 58 (219.0) | | 58 (219.0) | | 57 (215.7) | |
| Maximum water pressure, psig (kPa) | 152 (1048) | | 152 (1048) | | 152 (1048) | | 152 (1048) | |
| Max. refrigerant working pressure, psig (kPa) | 450 (3103) | | 450 (3103) | | 450 (3103) | | 450 (3103) | |
| Water inlet/outlet viciaulic connections, in (mm) ³ | 8 (200) | | 8 (200) | | 8 (200) | | 8 (200) | |
| Drain—NPT int, in | 1/2-in NPTF | | 1/2-in NPTF | | 1/2-in NPTF | | 1/2-in NPTF | |
| Vent—NPT int, in (mm) | 1/2-in NPTF | | 1/2-in NPTF | | 1/2-in NPTF | | 1/2-in NPTF | |

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

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

3. Water connection shown is nominal pipe size.

4. Units shipped with a holding charge. Operating charge quantity shown must have field piping charge added.

5. Length of interconnecting field piping affects unit performance.