

## Air-Cooled Screw Compressor Chillers—140 to 500 Tons

- Ultra-quiet operation - as low as 65 dBA per ARI Standard 370, with optional sound attenuation package
- Application flexibility - remote evaporator option allows for split system applications
- Optional unit-mounted pump packages available on standard efficiency units
- Reliability - proven single screw compressor design
- Controls flexibility—MicroTech® II controls with our Open Choices™ feature for easy integration with the BAS of your choice
- Efficiency options - ASHRAE Standard 90.1 compliant standard efficiency units. High and premium efficiency units available up to 10.6 EER at full load
- R-134a refrigerant - no ozone depletion potential, no phase-out schedule

For more detail, refer to Catalog AGSD and Catalog AGSDP. For the most current information, refer to [www.mcquay.com](http://www.mcquay.com).



Model AGS—140 to 500 tons,  
R-134a



Modbus®

Available LONMARK certified

## Pathfinder™ Air-Cooled Chillers—175 to 530 Tons

- Three levels of efficiency
  - **Standard:** meets ASHRAE Standard 90.1 for efficiency
  - **High:** enhanced efficiency, up to 10.8 EER at full load
  - **Premium:** highest full load efficiency in its class with part load efficiency that rivals competitive chillers with VFDs
- Integrated VFD further optimizes part load efficiency to redefine world class performance
- Quietest air cooled screw chiller available, with sound pressure levels as low as 65 dBA with no attenuation
  - Patented condenser fan moves maximum amounts of air with minimal sound
  - Unique screw compressor with single main rotor and dual gaterotors operates more quietly than dual rotor screw compressors
- Contributes to Leadership in Energy and Environmental Design (LEED®) Green Building Rating System™ points for enhanced refrigerant management and optimized energy efficiency
- Small unit footprint makes it ideal for retrofit and replacement projects
- All Pathfinder Chillers shipped in North America are D-Net™ remote service capable, providing a direct electronic connection to a Pathfinder Chiller and the ability for enhanced level of support to keep the chiller running efficiently and reliably
- Application flexibility with remote evaporator option available on standard efficiency units

For more detail, refer to Catalog 600.  
For the most current information, refer to [www.mcquay.com](http://www.mcquay.com).



Pathfinder Chiller - 175 to 530 tons,  
Model AWS, R-134a

Modbus®

BACnet  
International

LONMARK<sup>3,4</sup>

Available LONMARK certified

# Air-Cooled Chillers

## Pathfinder Model AWS Air-Cooled Packaged Chiller, Standard Efficiency—Physical Data

### AWS 175ADS through AWS 210ADS, Packaged, Standard Efficiency, R-134a

Data	AWS175ADS Std Eff		AWS190ADS Std Eff		AWS210ADS Std Eff	
	Circuit 1	Circuit 2	Circuit 1	Circuit 2	Circuit 1	Circuit 2
<b>Basic Data</b>						
Unit cap. @ AHRI tons (kW)	174.1 (612.2)		194.2 (682.9)		207.8 (730.6)	
Unit operating charge lb (kg)	145 (66)	145 (66)	165 (75)	165 (75)	175 (79)	175 (79)
Unit dimensions L × W × H, in (mm)	245 x 88 x 100 (6220 x 2225 x 2548)		245 x 88 x 100 (6220 x 2225 x 2548)		245 x 88 x 100 (6220 x 2225 x 2548)	
Unit operating weight, lb (kg)	12950 (5874)		13673 (6202)		14208 (6445)	
Unit shipping weight, lb (kg)	12407 (5628)		13130 (5956)		13665 (6198)	
Weight-add for copper fins	1786 (810)		1786 (810)		1786 (810)	
Weight-add for louvered panels	676 (307)		788 (357)		788 (357)	
Weight-add for sound enclosures	477 (216)		477 (216)		477 (216)	
<b>Compressors, Screw, Semi-Hermetic</b>						
Nominal capacity, tons (kW)	90 (316)	90 (316)	90 (316)	100 (351)	100 (351)	100 (351)
Minimum capacity (% of full load)	15		15		15	
Oil charge per circuit, gallons (liters)	4.5 (17)	4.5 (17)	4.5 (17)	5.5 (21)	5.5 (21)	5.5 (21)
<b>Condensers, High Efficiency Fin and Tube Type</b>						
Pumpdown capacity, lb (kg)	208 (94)	208 (94)	250 (113)	250 (113)	250 (113)	250 (113)
Coil inlet face area, ft <sup>2</sup> (m <sup>2</sup> )	123.1 (11.4)	123.1 (11.4)	147.7 (13.7)	147.7 (13.7)	147.7 (13.7)	147.7 (13.7)
Rows deep/fins per inch	3 / 16	3 / 16	3 / 16	3 / 16	3 / 16	3 / 16
<b>Condenser Fans, Direct Drive Propeller Type</b>						
No. of fans/circuit—fan dia., in (mm)	5–31.5 (800)		6–31.5 (800)		6–31.5 (800)	
Fan motors—hp (kW) / rpm	1.4 (1.05) / 850		1.4 (1.05) / 850		1.4 (1.05) / 850	
Airflow, cfm (L/s)	110850 (52315)		133020 (62778)		133020 (62778)	
<b>Evaporator, Direct Expansion Shell and Tube</b>						
Shell dia. tube length, in (mm)	16 x 406 (406 x 2750)		16 x 108 (406 x 2750)		16 x 108 (406 x 2750)	
Water volume, gallons (L)	67 (255)		67 (255)		63 (240)	
Victaulic inlet/outlet conn. in. (mm)	6 (168)		6 (168)		6 (168)	
Max. water / refrig. pressure, psi (kPa)	152 (1048) / 325 (2241)		152 (1048) / 325 (2241)		152 (1048) / 325 (2241)	

### AWS 230ADS through AWS 280ADS, Packaged, Standard Efficiency, R-134a

Data	AWS230ADS Std Eff		AWS250ADS Std Eff		AWS280ADS Std Eff	
	Circuit 1	Circuit 2	Circuit 1	Circuit 2	Circuit 1	Circuit 2
<b>Basic Data</b>						
Unit cap. @ AHRI tons (kW)	231.8 (815.0)		248.7 (874.4)		271.9 (955.9)	
Unit operating charge lb (kg)	195 (88)	210 (95)	210 (95)	210 (95)	230 (104)	245 (111)
Unit dimensions L × W × H, in (mm)	280 x 88 x 100 (7121 x 2225 x 2548)		280 x 88 x 100 (7121 x 2225 x 2548)		316 x 88 x 100 (8022 x 2225 x 2548)	
Unit operating weight, lb (kg)	15381 (6977)		15669 (7107)		17012 (7717)	
Unit shipping weight, lb (kg)	14838 (6730)		15126 (6861)		16145 (7323)	
Weight-add for copper fins	2084 (945)		2084 (945)		2372 (1076)	
Weight-add for louvered panels	900 (408)		900 (408)		1012 (459)	
Weight-add for sound enclosures	477 (216)		477 (216)		477 (216)	
<b>Compressors, Screw, Semi-Hermetic</b>						
Nominal capacity, tons (kW)	100 (351)	125 (439)	125 (439)	125 (439)	125 (439)	150 (528)
Minimum capacity (% of full load)	15		15		15	
Oil charge per circuit, gallons (liters)	5.5 (21)	5.5 (21)	5.5 (21)	5.5 (21)	5.5 (21)	6 (23)
<b>Condensers, High Efficiency Fin and Tube Type</b>						
Pumpdown capacity, lb (kg)	291 (132)	291 (132)	291 (132)	291 (132)	333 (151)	333 (151)
Coil inlet face area, ft <sup>2</sup> (m <sup>2</sup> )	172.3 (16.0)	172.3 (16.0)	172.3 (16.0)	172.3 (16.0)	169.9 (18.3)	169.9 (18.3)
Rows deep/fins per inch	3 / 16	3 / 16	3 / 16	3 / 16	3 / 16	3 / 16
<b>Condenser Fans, Direct Drive Propeller Type</b>						
No. of fans/circuit—fan dia., in (mm)	7–31.5 (800)		7–31.5 (800)		8–31.5 (800)	
Fan motors—hp (kW) / rpm	1.4 (1.05) / 850		1.4 (1.05) / 850		1.4 (1.05) / 850	
Airflow, cfm (L/s)	155190 (73241)		155190 (73241)		177360 (83704)	
<b>Evaporator, Direct Expansion Shell and Tube</b>						
Shell dia. tube length, in (mm)	16 x 108 / (406 x 2750)		16 x 108 / (406 x 2750)		20 x 108 / (508 x 2750)	
Water volume, gallons (L)	61 (232)		61 (232)		103 (390)	
Victaulic inlet/outlet conn. in. (mm)	6 (168)		6 (168)		8 (219)	
Max. water / refrig. pressure, psi (kPa)	152 (1048) / 325 (2241)		152 (1048) / 325 (2241)		152 (1048) / 325 (2241)	

# Air-Cooled Chillers

## AWS 300ADS through AWS 350ADS, Packaged, Standard Efficiency, R-134a

Data	AWS300ADS Std Eff		AWS320ADS Std Eff		AWS350ADS Std Eff	
	Circuit 1	Circuit 2	Circuit 1	Circuit 2	Circuit 1	Circuit 2
<b>Basic Data</b>						
Unit cap. @ AHRI tons (kW)	290.5 (1022.4)		327.5 (1151.8)		349.5 (1229.0)	
Unit operating charge lb (kg)	245 (111)	245 (111)	270 (122)	270 (122)	285 (129)	285 (129)
Unit dimensions L x W x H, in (mm)	316 x 88 x 100 (8026 x 2225 x 2548)		387 x 88 x 100 (9823 x 2225 x 2548)		387 x 88 x 100 (9823 x 2225 x 2548)	
Unit operating weight, lb (kg)	17724 (8040)		19656 (8916)		19656 (8916)	
Unit shipping weight, lb (kg)	16857 (7646)		18789 (8523)		18789 (8523)	
Weight-add for copper fins	2372 (1076)		2968 (1346)		2968 (1346)	
Weight-add for louvered panels	1012 (459)		1236 (561)		1236 (561)	
Weight-add for sound enclosures	477 (216)		477 (216)		477 (216)	
<b>Compressors, Screw, Semi-Hermetic</b>						
Nominal capacity, tons (kW)	150 (528)	150 (528)	150 (128)	175 (615)	175 (615)	175 (615)
Minimum capacity (% of full load)	15		15		15	
Oil charge per circuit, gallons (liters)	6 (23)	6 (23)	6 (23)	6 (23)	6 (23)	6 (23)
<b>Condensers, High Efficiency Fin and Tube Type</b>						
Pumpdown capacity, lb (kg)	333 (151)	333 (151)	416 (189)	416 (189)	416 (189)	416 (189)
Coil inlet face area, ft <sup>2</sup> (m <sup>2</sup> )	169.9 (18.3)	169.9 (18.3)	246.1 (22.8)	246.1 (22.8)	246.1 (22.8)	246.1 (22.8)
Rows deep/fins per inch	3 / 16	3 / 16	3 / 16	3 / 16	3 / 16	3 / 16
<b>Condenser Fans, Direct Drive Propeller Type</b>						
No. of fans/circuit—fan dia., in (mm)	8–31.5 (800)		10–31.5 (800)		10–31.5 (800)	
Fan motors—hp (kW) / rpm	1.4 (1.05) / 850		1.4 (1.05) / 850		1.4 (1.05) / 850	
Airflow, cfm (L/s)	177360 (83704)		221700 (104630)		221700 (104630)	
<b>Evaporator, Direct Expansion Shell and Tube</b>						
Shell dia. tube length, in (mm)	20 x 108 / (508 x 2750)		20 x 108 / (508 x 2750)		20 x 108 / (508 x 2750)	
Water volume, gallons (L)	103 (390)		99 (374)		99 (374)	
Victaulic inlet/outlet conn. in. (mm)	8 (219)		8 (219)		8 (219)	
Max. water / refig. pressure, psi (kPa)	152 (1048) / 325 (2241)		152 (1048) / 325 (2241)		152 (1048) / 325 (2241)	

## AWS 375ATS through AWS 400ATS, Packaged, Standard Efficiency, R-134a

Data	AWS375ATS Std Eff			AWS400ATS Std Eff		
	Circuit 1	Circuit 2	Circuit 3	Circuit 1	Circuit 2	Circuit 3
<b>Basic Data</b>						
Unit cap. @ AHRI tons (kW)	376.5 (1323.9)			396.8 (1395.1)		
Unit operating charge lb (kg)	210 (95)	210 (95)	245 (111)	210 (95)	210 (95)	245 (111)
Unit dimensions L x W x H, in (mm)	438 x 88 x 100 (11123 x 2225 x 2548)			438 x 88 x 100 (11123 x 2225 x 2548)		
Unit operating weight, lb (kg)	23885 (10834)			24570 (11145)		
Unit shipping weight, lb (kg)	22486 (10200)			23171 (10510)		
Weight-add for copper fins	3256 (1477)			3256 (1477)		
Weight-add for louvered panels	1348 (611)			1348 (611)		
Weight-add for sound enclosures	776 (352)			776 (352)		
<b>Compressors, Screw, Semi-Hermetic</b>						
Nominal capacity, tons (kW)	125 (439)	125 (439)	125 (439)	125 (439)	125 (439)	150 (528)
Minimum capacity (% of full load)	8			8		
Oil charge per circuit, gallons (liters)	5.5 (21)	5.5 (21)	5.5 (21)	5.5 (21)	5.5 (21)	6 (23)
<b>Condensers, High Efficiency Fin and Tube Type</b>						
Pumpdown capacity, lb (kg)	291 (132)	291 (132)	333 (151)	291 (132)	291 (132)	333 (151)
Coil inlet face area, ft <sup>2</sup> (m <sup>2</sup> )	172.3 (16.0)	172.3 (16.0)	169.9 (18.3)	172.3 (16.0)	172.3 (16.0)	169.9 (18.3)
Rows deep/fins per inch	3 / 16	3 / 16	3 / 16	3 / 16	3 / 16	3 / 16
<b>Condenser Fans, Direct Drive Propeller Type</b>						
No. of fans/circuit—fan dia., in (mm)	7–31.5 (800)	7–31.5 (800)	8–31.5 (800)	7–31.5 (800)	7–31.5 (800)	8–31.5 (800)
Fan motors—hp (kW) / rpm	1.4 (1.05) / 850			1.4 (1.05) / 850		
Airflow, cfm (L/s)	266040 (125556)			243870 (115094)		
<b>Evaporator, Direct Expansion Shell and Tube</b>						
Shell dia. tube length, in (mm)	26 x 130 / (660 x 3300)			26 x 130 / (660 x 3300)		
Water volume, gallons (L)	230 (871)			225 (850)		
Victaulic inlet/outlet conn. in. (mm)	10 (273)			10 (273)		
Max. water / refig. pressure, psi (kPa)	152 (1048) / 325 (2241)			152 (1048) / 325 (2241)		



# Air-Cooled Chillers

## AWS 425ATS through AWS 445ATS, Packaged, Standard Efficiency, R-134a

Data	AWS425ATS Std Eff			AWS445ATS Std Eff		
	Circuit 1	Circuit 2	Circuit 3	Circuit 1	Circuit 2	Circuit 3
<b>Basic Data</b>						
Unit cap. @ AHRI tons (kW)	414.1 (1456.1)			448.2 (1576.1)		
Unit operating charge lb (kg)	245 (111)	245 (111)	220 (100)	245 (111)	245 (111)	245 (111)
Unit dimensions L x W x H, in (mm)	473 x 88 x 100 (12024 x 2225 x 2548)			473 x 88 x 100 (12024 x 2225 x 2548)		
Unit operating weight, lb (kg)	26830 (12170)			27506 (12477)		
Unit shipping weight, lb (kg)	25431 (11535)			26107 (11842)		
Weight-add for copper fins	3553 (1612)			3553 (1612)		
Weight-add for louvered panels	1460 (662)			1460 (662)		
Weight-add for sound enclosures	776 (352)			776 (352)		
<b>Compressors, Screw, Semi-Hermetic</b>						
Nominal capacity, tons (kW)	125 (439)	150 (528)	150 (528)	150 (528)	150 (528)	150 (528)
Minimum capacity (% of full load)	8			8		
Oil charge per circuit, gallons (liters)	5.5 (21)	6 (23)	6 (23)	6 (23)	6 (23)	6 (23)
<b>Condensers, High Efficiency Fin and Tube Type</b>						
Pumpdown capacity, lb (kg)	333 (151)	333 (151)	333 (151)	333 (151)	333 (151)	333 (151)
Coil inlet face area, ft <sup>2</sup> (m <sup>2</sup> )	169.9 (18.3)	169.9 (18.3)	169.9 (18.3)	169.9 (18.3)	169.9 (18.3)	169.9 (18.3)
Rows deep/fins per inch	3 / 16	3 / 16	3 / 16	3 / 16	3 / 16	3 / 16
<b>Condenser Fans, Direct Drive Propeller Type</b>						
No. of fans/circuit—fan dia., in (mm)	8–31.5 (800)			8–31.5 (800)		
Fan motors—hp (kW) / rpm	1.4 (1.05) / 850			1.4 (1.05) / 850		
Airflow, cfm (L/s)	266040 (125556)			266040 (125556)		
<b>Evaporator, Direct Expansion Shell and Tube</b>						
Shell dia. tube length, in (mm)	26 x 130 / (660 x 3300)			26 x 130 / (660 x 3300)		
Water volume, gallons (L)	220 (831)			220 (831)		
Victaulic inlet/outlet conn. in. (mm)	10 (273)			10 (273)		
Max. water / refrig. pressure, psi (kPa)	152 (1048) / 325 (2241)			152 (1048) / 325 (2241)		

## AWS 470ATS through AWS 500ATS, Packaged, Standard Efficiency, R-134a

Data	AWS470ATS Std Eff			AWS500ATS Std Eff		
	Circuit 1	Circuit 2	Circuit 3	Circuit 1	Circuit 2	Circuit 3
<b>Basic Data</b>						
Unit cap. @ AHRI tons (kW)	478.2 (1681.5)			504.4 (1773.5)		
Unit operating charge lb (kg)	245 (111)	245 (111)	275 (125)	275 (125)	275 (125)	245 (111)
Unit dimensions L x W x H, in (mm)	509 x 88 x 100 (12921 x 2225 x 2548)			544 x 88 x 100 (13823 x 2225 x 2548)		
Unit operating weight, lb (kg)	28631 (12987)			29508 (13385)		
Unit shipping weight, lb (kg)	27232 (12352)			28109 (12750)		
Weight-add for copper fins	3870 (1755)			4168 (1891)		
Weight-add for louvered panels	1572 (713)			1684 (764)		
Weight-add for sound enclosures	776 (352)			776 (352)		
<b>Compressors, Screw, Semi-Hermetic</b>						
Nominal capacity, tons (kW)	150 (528)	150 (528)	175 (615)	175 (615)	175 (615)	150 (528)
Minimum capacity (% of full load)	8			8		
Oil charge per circuit, gallons (liters)	6 (23)	6 (23)	6 (23)	6 (23)	6 (23)	6 (23)
<b>Condensers, High Efficiency Fin and Tube Type</b>						
Pumpdown capacity, lb (kg)	333 (151)	333 (151)	416 (189)	416 (189)	416 (189)	333 (151)
Coil inlet face area, ft <sup>2</sup> (m <sup>2</sup> )	169.9 (18.3)	169.9 (18.3)	246.1 (22.8)	246.1 (22.8)	246.1 (22.8)	169.9 (18.3)
Rows deep/fins per inch	3 / 16	3 / 16	3 / 16	3 / 16	3 / 16	3 / 16
<b>Condenser Fans, Direct Drive Propeller Type</b>						
No. of fans/circuit—fan dia., in (mm)	8–31.5 (800)	8–31.5 (800)	10–31.5 (800)	10–31.5 (800)	10–31.5 (800)	8–31.5 (800)
Fan motors—hp (kW) / rpm	1.4 (1.05) / 850			1.4 (1.05) / 850		
Airflow, cfm (L/s)	288210 (136019)			310380 (146482)		
<b>Evaporator, Direct Expansion Shell and Tube</b>						
Shell dia. tube length, in (mm)	26 x 130 / (660 x 3300)			26 x 130 / (660 x 3300)		
Water volume, gallons (L)	220 (831)			220 (831)		
Victaulic inlet/outlet conn. in. (mm)	10 (273)			10 (273)		
Max. water / refrig. pressure, psi (kPa)	152 (1048) / 325 (2241)			152 (1048) / 325 (2241)		

# Air-Cooled Chillers

## AWS 530ATS, Packaged, Standard Efficiency, R-134a

Data	AWS530ATS Std Eff		
	Circuit 1	Circuit 2	Circuit 3
<b>Basic Data</b>			
Unit cap. @ AHRI tons (kW)	533.9 (1877.1)		
Unit operating charge lb (kg)	285 (129)	285 (129)	285 (129)
Unit dimensions L x W x H, in (mm)	580 x 88 x 100 (14722 x 2225 x 2548)		
Unit operating weight, lb (kg)	30348 (13766)		
Unit shipping weight, lb (kg)	28949 (13131)		
Weight-add for copper fins	4466 (2026)		
Weight-add for louvered panels	1796 (815)		
Weight-add for sound enclosures	776 (352)		
<b>Compressors, Screw, Semi-Hermetic</b>			
Nominal capacity, tons (kW)	175 (615)	175 (615)	175 (615)
Minimum capacity (% of full load)	8		
Oil charge per circuit, gallons (liters)	6 (23)	6 (23)	6 (23)
<b>Condensers, High Efficiency Fin and Tube Type</b>			
Pumpdown capacity, lb (kg)	416 (189)	416 (189)	416 (189)
Coil inlet face area, ft <sup>2</sup> (m <sup>2</sup> )	246.1 (22.8)	246.1 (22.8)	246.1 (22.8)
Rows deep/fins per inch	3 / 16	3 / 16	3 / 16
<b>Condenser Fans, Direct Drive Propeller Type</b>			
No. of fans/circuit—fan dia., in (mm)	10–31.5 (800)	10–31.5 (800)	10–31.5 (800)
Fan motors—hp (kW) / rpm	1.4 (1.05) / 850		
Airflow, cfm (L/s)	332550 (156945)		
<b>Evaporator, Direct Expansion Shell and Tube</b>			
Shell dia. tube length, in (mm)	26 x 130 / (660 x 3300)		
Water volume, gallons (L)	220 (831)		
Victaulic inlet/outlet conn. in. (mm)	10 (273)		
Max. water / refig. pressure, psi (kPa)	152 (1048) / 325 (2241)		

## Pathfinder Model AWS Air-Cooled Packaged Chiller, High Efficiency—Physical Data

### AWS 210ADH through AWS 250ADH, Packaged, High Efficiency, R-134a

Data	AWS210ADH High Eff		AWS230ADH High Eff		AWS250ADH High Eff	
	Circuit 1	Circuit 2	Circuit 1	Circuit 2	Circuit 1	Circuit 2
<b>Basic Data</b>						
Unit cap. @ AHRI tons (kW)	207.0 (727.9)		229.1 (805.4)		246.6 (867.0)	
Unit operating charge lb (kg)	180 (82)	180 (82)	200 (90)	220 (100)	220 (100)	220 (100)
Unit dimensions L x W x H, in (mm)	245 x 88 x 100 (6220 x 2225 x 2548)		280 x 88 x 100 (7121 x 2225 x 2548)		280 x 88 x 100 (7121 x 2225 x 2548)	
Unit operating weight, lb (kg)	13411 (6083)		15107 (6852)		15669 (7107)	
Unit shipping weight, lb (kg)	12868 (5837)		14564 (6606)		15126 (6861)	
Weight-add for copper fins	1876 (851)		2084 (945)		2084 (945)	
Weight-add for louvered panels	788 (357)		900 (408)		900 (408)	
Weight-add for sound enclosures	477 (216)		477 (216)		477 (216)	
<b>Compressors, Screw, Semi-Hermetic</b>						
Nominal capacity, tons (kW)	100 (351)	100 (351)	100 (351)	125 (439)	125 (439)	125 (439)
Minimum capacity (% of full load)	15		15		15	
Oil charge per circuit, gallons (liters)	4.5 (17)	4.5 (17)	4.5 (17)	5.5 (21)	5.5 (21)	5.5 (21)
<b>Condensers, High Efficiency Fin and Tube Type</b>						
Pumpdown capacity, lb (kg)	250 (113)	250 (113)	291 (132)	291 (132)	291 (132)	291 (132)
Coil inlet face area, ft <sup>2</sup> (m <sup>2</sup> )	147.7 (13.7)	147.7 (13.7)	172.3 (16.0)	172.3 (16.0)	172.3 (16.0)	172.3 (16.0)
Rows deep/fins per inch	3 / 16	3 / 16	3 / 16	3 / 16	3 / 16	3 / 16
<b>Condenser Fans, Direct Drive Propeller Type</b>						
No. of fans/circuit—fan dia., in (mm)	6–31.5 (800)		7–31.5 (800)		7–31.5 (800)	
Fan motors—hp (kW) / rpm	1.4 (1.05) / 850		1.4 (1.05) / 850		1.4 (1.05) / 850	
Airflow, cfm (L/s)	133020 (62778)		155190 (73241)		155190 (73241)	
<b>Evaporator, Direct Expansion Shell and Tube</b>						
Shell dia. tube length, in (mm)	16 x 108 / (406 x 2750)		16 x 108 / (406 x 2750)		16 x 108 / (406 x 2750)	
Water volume, gallons (L)	63 (240)		61 (232)		61 (252)	
Victaulic inlet/outlet conn. in. (mm)	6 (168)		6 (168)		6 (168)	
Max. water / refig. pressure, psi (kPa)	152 (1048) / 325 (2241)		152 (1048) / 325 (2241)		152 (1048) / 325 (2241)	

# Air-Cooled Chillers

## AWS 280ADH through AWS 320ADH, Packaged, High Efficiency, R-134a

Data	AWS280ADH High Eff		AWS300ADH High Eff		AWS320ADH High Eff	
	Circuit 1	Circuit 2	Circuit 1	Circuit 2	Circuit 1	Circuit 2
<b>Basic Data</b>						
Unit cap. @ AHRI tons (kW)	271.9 (955.9)		292.3 (1027.9)		327.3 (1150.9)	
Unit operating charge lb (kg)	230 (104)	250 (113)	250 (113)	250 (113)	260 (118)	285 (129)
Unit dimensions L x W x H, in (mm)	316 x 88 x 100 (8022 x 2225 x 2548)		316 x 88 x 100 (8022 x 2225 x 2548)		387 x 88 x 100 (9823 x 2225 x 2548)	
Unit operating weight, lb (kg)	17008 (7715)		17008 (7715)		19486 (8839)	
Unit shipping weight, lb (kg)	16141 (7322)		16141 (7322)		18619 (8446)	
Weight-add for copper fins	2372 (1076)		2372 (1076)		2968 (1346)	
Weight-add for louvered panels	1012 (459)		1012 (459)		1236 (561)	
Weight-add for sound enclosures	477 (216)		477 (216)		477 (216)	
<b>Compressors, Screw, Semi-Hermetic</b>						
Nominal capacity, tons (kW)	125 (439)	150 (528)	150 (528)	150 (528)	150 (528)	175 (615)
Minimum capacity (% of full load)	15		15		15	
Oil charge per circuit, gallons (liters)	5.5 (21)	5.5 (21)	5.5 (21)	5.5 (21)	5.5 (21)	6 (23)
<b>Condensers, High Efficiency Fin and Tube Type</b>						
Pumpdown capacity, lb (kg)	333 (151)	333 (151)	333 (151)	333 (151)	416 (189)	416 (189)
Coil inlet face area, ft <sup>2</sup> (m <sup>2</sup> )	169.9 (18.3)	169.9 (18.3)	169.9 (18.3)	169.9 (18.3)	246.1 (22.8)	246.1 (22.8)
Rows deep/fins per inch	3 / 16	3 / 16	3 / 16	3 / 16	3 / 16	3 / 16
<b>Condenser Fans, Direct Drive Propeller Type</b>						
No. of fans/circuit-fan dia., in (mm)	8-31.5 (800)		8-31.5 (800)		10-31.5 (800)	
Fan motors-hp (kW) / rpm	1.4 (1.05) / 850		1.4 (1.05) / 850		1.4 (1.05) / 850	
Airflow, cfm (L/s)	177360 (83704)		177360 (83704)		221700 (104630)	
<b>Evaporator, Direct Expansion Shell and Tube</b>						
Shell dia. tube length, in (mm)	20 x 108 / (508 x 2750)		20 x 108 / (508 x 2750)		20 x 108 / (508 x 2750)	
Water volume, gallons (L)	103 (390)		103 (390)		99 (374)	
Victaulic inlet/outlet conn. in. (mm)	8 (219)		8 (219)		8 (219)	
Max. water / refig. pressure, psi (kPa)	152 (1048) / 325 (2241)		152 (1048) / 325 (2241)		152 (1048) / 325 (2241)	

## AWS 350ADH through AWS 405ADH, Packaged, High Efficiency, R-134a

Data	AWS350ADH High Eff		AWS380ADH High Eff		AWS405ADH High Eff	
	Circuit 1	Circuit 2	Circuit 1	Circuit 2	Circuit 1	Circuit 2
<b>Basic Data</b>						
Unit cap. @ AHRI tons (kW)	336.6 (1183.7)		365.6 (1286.5)		394.8 (1389.3)	
Unit operating charge lb (kg)	285 (129)	285 (129)	285 (129)	331 (150)	331 (150)	331 (150)
Unit dimensions L x W x H, in (mm)	387 x 88 x 100 (9823 x 2225 x 2548)		438 x 88 x 100 (11123 x 2225 x 2548)		473 x 88 x 101 (12024 x 2225 x 2548)	
Unit operating weight, lb (kg)	19656 (8916)		21132 (9585)		21915 (9941)	
Unit shipping weight, lb (kg)	18789 (8523)		20265 (9192)		21048 (9547)	
Weight-add for copper fins	2968 (1346)		3256 (1477)		3553 (1612)	
Weight-add for louvered panels	1236 (561)		1348 (611)		1460 (662)	
Weight-add for sound enclosures	477 (216)		477 (216)		477 (216)	
<b>Compressors, Screw, Semi-Hermetic</b>						
Nominal capacity, tons (kW)	175 (615)	175 (615)	175 (615)	200 (703)	200 (703)	200 (703)
Minimum capacity (% of full load)	15		15		15	
Oil charge per circuit, gallons (liters)	6 (23)	6 (23)	6 (23)	6 (23)	6 (23)	6 (23)
<b>Condensers, High Efficiency Fin and Tube Type</b>						
Pumpdown capacity, lb (kg)	416 (189)	416 (189)	416 (189)	500 (227)	500 (227)	500 (227)
Coil inlet face area, ft <sup>2</sup> (m <sup>2</sup> )	246.1 (22.8)	246.1 (22.8)	246.1 (22.8)	295.3 (27.4)	295.3 (27.4)	295.3 (27.4)
Rows deep/fins per inch	3 / 16	3 / 16	3 / 16	3 / 16	3 / 16	3 / 16
<b>Condenser Fans, Direct Drive Propeller Type</b>						
No. of fans/circuit-fan dia., in (mm)	10-31.5 (800)	10-31.5 (800)	10-31.5 (800)	12-31.5 (800)	12-31.5 (800)	12-31.5 (800)
Fan motors-hp (kW) / rpm	1.4 (1.05) / 850		1.4 (1.05) / 850		1.4 (1.05) / 850	
Airflow, cfm (L/s)	221700 (104630)		243870 (115094)		266040 (125556)	
<b>Evaporator, Direct Expansion Shell and Tube</b>						
Shell dia. tube length, in (mm)	20 x 108 / (508 x 2750)		20 x 108 / (508 x 2750)		20 x 108 / (508 x 2750)	
Water volume, gallons (L)	99 (374)		99 (374)		99 (374)	
Victaulic inlet/outlet conn. in. (mm)	8 (219)		8 (219)		8 (219)	
Max. water / refig. pressure, psi (kPa)	152 (1048) / 325 (2241)		152 (1048) / 325 (2241)		152 (1048) / 325 (2241)	

# Air-Cooled Chillers

## AWS 445ATH through AWS 470ATH, Packaged, High Efficiency, R-134a

Data	AWS445ATH High Eff			AWS470ATH High Eff		
	Circuit 1	Circuit 2	Circuit 3	Circuit 1	Circuit 2	Circuit 3
<b>Basic Data</b>						
Unit cap. @ AHRI tons (kW)	439.8 (1546.6)			471.8 (1659.0)		
Unit operating charge lb (kg)	250 (113)	250 (113)	250 (113)	250 (113)	250 (113)	295 (134)
Unit dimensions L x W x H, in (mm)	473 x 88 x 100 (12024 x 2225 x 2548)			509 x 88 x 100 (12921 x 2225 x 2548)		
Unit operating weight, lb (kg)	25590 (11608)			27125 (12304)		
Unit shipping weight, lb (kg)	24191 (10973)			25726 (11669)		
Weight-add for copper fins	3553 (1612)			3870 (1755)		
Weight-add for louvered panels	1460 (662)			1572 (713)		
Weight-add for sound enclosures	776 (352)			776 (352)		
<b>Compressors, Screw, Semi-Hermetic</b>						
Nominal capacity, tons (kW)	150 (528)	150 (528)	150 (528)	150 (528)	150 (528)	175 (615)
Minimum capacity (% of full load)	8			8		
Oil charge per circuit, gallons (liters)	5.5 (21)	5.5 (21)	5.5 (21)	5.5 (21)	5.5 (21)	6 (23)
<b>Condensers, High Efficiency Fin and Tube Type</b>						
Pumpdown capacity, lb (kg)	333 (151)	333 (151)	333 (151)	333 (151)	333 (151)	416 (189)
Coil inlet face area, ft <sup>2</sup> (m <sup>2</sup> )	169.9 (18.3)	169.9 (18.3)	169.9 (18.3)	169.9 (18.3)	169.9 (18.3)	246.1 (22.8)
Rows deep/fins per inch	3 / 16	3 / 16	3 / 16	3 / 16	3 / 16	3 / 16
<b>Condenser Fans, Direct Drive Propeller Type</b>						
No. of fans/circuit—fan dia., in (mm)	8–31.5 (800)	8–31.5 (800)	8–31.5 (800)	8–31.5 (800)	8–31.5 (800)	10–31.5 (800)
Fan motors—hp (kW) / rpm	1.4 (1.05) / 850			1.4 (1.05) / 850		
Airflow, cfm (L/s)	266040 (125556)			288210 (136019)		
<b>Evaporator, Direct Expansion Shell and Tube</b>						
Shell dia. tube length, in (mm)	26 x 130 / (660 x 3300)			26 x 130 / (660 x 3300)		
Water volume, gallons (L)	225 (850)			220 (831)		
Victaulic inlet/outlet conn. in. (mm)	10 (273)			10 (273)		
Max. water / refrig. pressure, psi (kPa)	152 (1048) / 325 (2241)			152 (1048) / 325 (2241)		

## AWS 500ATH through AWS 530ATH, Packaged, High Efficiency, R-134a

Data	AWS500ATH High Eff			AWS530ATH High Eff		
	Circuit 1	Circuit 2	Circuit 3	Circuit 1	Circuit 2	Circuit 3
<b>Basic Data</b>						
Unit cap. @ AHRI tons (kW)	493.3 (1734.6)			524.8 (1845.4)		
Unit operating charge lb (kg)	295 (134)	295 (134)	250 (113)	295 (134)	295 (134)	295 (134)
Unit dimensions L x W x H, in (mm)	544 x 88 x 100 (13823 x 2225 x 2548)			580 x 88 x 100 (14722 x 2225 x 2548)		
Unit operating weight, lb (kg)	29098 (13199)			30348 (13766)		
Unit shipping weight, lb (kg)	27699 (12564)			28949 (13131)		
Weight-add for copper fins	4168 (1891)			4466 (2026)		
Weight-add for louvered panels	1684 (764)			1796 (815)		
Weight-add for sound enclosures	776 (352)			776 (352)		
<b>Compressors, Screw, Semi-Hermetic</b>						
Nominal capacity, tons (kW)	175 (615)	175 (615)	150 (528)	175 (615)	175 (615)	175 (615)
Minimum capacity (% of full load)	8			8		
Oil charge per circuit, gallons (liters)	6 (23)	6 (23)	5.5 (21)	6 (23)	6 (23)	6 (23)
<b>Condensers, High Efficiency Fin and Tube Type</b>						
Pumpdown capacity, lb (kg)	416 (189)	416 (189)	333 (151)	416 (189)	416 (189)	416 (189)
Coil inlet face area, ft <sup>2</sup> (m <sup>2</sup> )	246.1 (22.8)	246.1 (22.8)	169.9 (18.3)	246.1 (22.8)	246.1 (22.8)	246.1 (22.8)
Rows deep/fins per inch	3 / 16	3 / 16	3 / 16	3 / 16	3 / 16	3 / 16
<b>Condenser Fans, Direct Drive Propeller Type</b>						
No. of fans/circuit—fan dia., in (mm)	10–31.5 (800)	10–31.5 (800)	8–31.5 (800)	10–31.5 (800)	10–31.5 (800)	10–31.5 (800)
Fan motors—hp (kW) / rpm	1.4 (1.05) / 850			1.4 (1.05) / 850		
Airflow, cfm (L/s)	310380 (146482)			332550 (156945)		
<b>Evaporator, Direct Expansion Shell and Tube</b>						
Shell dia. tube length, in (mm)	26 x 130 / (660 x 3300)			26 x 130 / (660 x 3300)		
Water volume, gallons (L)	220 (831)			220 (831)		
Victaulic inlet/outlet conn. in. (mm)	10 (273)			10 (273)		
Max. water / refrig. pressure, psi (kPa)	152 (1048) / 325 (2241)			152 (1048) / 325 (2241)		



# Air-Cooled Chillers

## Pathfinder Model AWS Air-Cooled Packaged Chiller, Premium Efficiency—Physical Data

### AWS 210ADP through AWS 250ADP, Packaged, Premium Efficiency, R-134a

Data	AWS210ADP Prem Eff		AWS230ADP Prem Eff		AWS250ADP Prem Eff	
	Circuit 1	Circuit 2	Circuit 1	Circuit 2	Circuit 1	Circuit 2
<b>Basic Data</b>						
Unit cap. @ AHRI tons (kW)	214.7 (755.0)		236.1 (830.1)		255.1 (896.9)	
Unit operating charge lb (kg)	200 (91)	200 (91)	225 (102)	225 (102)	(235) (107)	(235) (107)
Unit dimensions L × W × H, in (mm)	316 x 88 x 100 (8022 x 2225 x 2548)		351 x 88 x 100 (8923 x 2225 x 2548)		351 x 88 x 100 (8923 x 2225 x 2548)	
Unit operating weight, lb (kg)	16812 (7626)		18327 (8313)		20200 (9163)	
Unit shipping weight, lb (kg)	15560 (7058)		17075 (7745)		18547 (8413)	
Weight-add for copper fins	2372 (1076)		2679 (1215)		2679 (1215)	
Weight-add for louvered panels	1012 (459)		1124 (510)		1124 (510)	
Weight-add for sound enclosures	477 (216)		477 (216)		477 (216)	
<b>Compressors, Screw, Semi-Hermetic</b>						
Nominal capacity, tons (kW)	100 (351)	100 (351)	100 (351)	125 (439)	125 (439)	125 (439)
Minimum capacity (% of full load)	15		15		15	
Oil charge per circuit, gallons (liters)	4.5 (17)	4.5 (17)	4.5 (17)	5.5 (21)	5.5 (21)	5.5 (21)
<b>Condensers, High Efficiency Fin and Tube Type</b>						
Pumpdown capacity, lb (kg)	333 (151)	333 (151)	375 (170)	375 (170)	375 (170)	375 (170)
Coil inlet face area, ft <sup>2</sup> (m <sup>2</sup> )	169.9 (18.3)	169.9 (18.3)	221.5 (20.6)	221.5 (20.6)	221.5 (20.6)	221.5 (20.6)
Rows deep/fins per inch	3 / 16	3 / 16	3 / 16	3 / 16	3 / 16	3 / 16
<b>Condenser Fans, Direct Drive Propeller Type</b>						
No. of fans/circuit—fan dia., in (mm)	8–31.5 (800)		9–31.5 (800)		9–31.5 (800)	
Fan motors—hp (kW) / rpm	1.4 (1.05) / 850		1.4 (1.05) / 850		1.4 (1.05) / 850	
Airflow, cfm (L/s)	177360 (83704)		199530 (94167)		199530 (94167)	
<b>Evaporator, Direct Expansion Shell and Tube</b>						
Shell dia. tube length, in (mm)	20 x 154 / (508 x 3900)		20 x 154 / (508 x 3900)		26 x 154 / (660 x 3900)	
Water volume, gallons (L)	154 (582)		154 (582)		267 (1011)	
Victaulic inlet/outlet conn. in. (mm)	8 (2199)		8 (219)		10 (273)	
Max. water / refig. pressure, psi (kPa)	152 (1048) / 325 (2241)		152 (1048) / 325 (2241)		152 (1048) / 325 (2241)	

### AWS 280ADP through AWS 320ADP, Packaged, Premium Efficiency, R-134a

Data	AWS280ADP Prem Eff		AWS300ADP Prem Eff		AWS320ADP Prem Eff	
	Circuit 1	Circuit 2	Circuit 1	Circuit 2	Circuit 1	Circuit 2
<b>Basic Data</b>						
Unit cap. @ AHRI tons (kW)	279.5 (982.7)		301.5 (1060.3)		336.8 (1184.3)	
Unit operating charge lb (kg)	250 (113)	250 (113)	260 (118)	260 (118)	260 (118)	300 (136)
Unit dimensions L × W × H, in (mm)	387 x 88 x 100 (9823 x 2225 x 2548)		387 x 88 x 100 (9823 x 2225 x 2548)		438 x 88 x 100 (11122 x 2225 x 2548)	
Unit operating weight, lb (kg)	21068 (9556)		21068 (9556)		22839 (10360)	
Unit shipping weight, lb (kg)	19415 (8807)		19415 (8807)		21186 (9610)	
Weight-add for copper fins	2968 (1346)		2968 (1346)		3256 (1477)	
Weight-add for louvered panels	1236 (561)		1236 (561)		1348 (611)	
Weight-add for sound enclosures	477 (216)		477 (216)		477 (216)	
<b>Compressors, Screw, Semi-Hermetic</b>						
Nominal capacity, tons (kW)	125 (439)	150 (528)	150 (528)	150 (528)	150 (528)	175 (615)
Minimum capacity (% of full load)	15		15		15	
Oil charge per circuit, gallons (liters)	5.5 (21)	5.5 (21)	5.5 (21)	5.5 (21)	5.5 (21)	6 (23)
<b>Condensers, High Efficiency Fin and Tube Type</b>						
Pumpdown capacity, lb (kg)	416 (189)	416 (189)	416 (189)	416 (189)	416 (189)	500 (227)
Coil inlet face area, ft <sup>2</sup> (m <sup>2</sup> )	246.1 (22.8)	246.1 (22.8)	246.1 (22.8)	246.1 (22.8)	246.1 (22.8)	295.3 (27.4)
Rows deep/fins per inch	3 / 16	3 / 16	3 / 16	3 / 16	3 / 16	3 / 16
<b>Condenser Fans, Direct Drive Propeller Type</b>						
No. of fans/circuit—fan dia., in (mm)	10–31.5 (800)	10–31.5 (800)	10–31.5 (800)	10–31.5 (800)	10–31.5 (800)	12–31.5 (800)
Fan motors—hp (kW) / rpm	1.4 (1.05) / 850		1.4 (1.05) / 850		1.4 (1.05) / 850	
Airflow, cfm (L/s)	221700 (104630)		221700 (104630)		243870 (115093)	
<b>Evaporator, Direct Expansion Shell and Tube</b>						
Shell dia. tube length, in (mm)	26 x 154 / (660 x 3900)		26 x 154 / (660 x 3900)		26 x 154 / (660 x 3900)	
Water volume, gallons (L)	267 (1011)		267 (1011)		254 (963)	
Victaulic inlet/outlet conn. in. (mm)	10 (273)		10 (273)		10 (273)	
Max. water / refig. pressure, psi (kPa)	152 (1048) / 325 (2241)		152 (1048) / 325 (2241)		152 (1048) / 325 (2241)	

## AWS 350ADP, Packaged, Premium Efficiency, R-134a

Data	AWS350ADP Prem Eff	
	Circuit 1	Circuit 2
<b>Basic Data</b>		
Unit cap. @ AHRI tons (kW)	368.4 (1295.3)	
Unit operating charge lb (kg)	310 (141)	310 (141)
Unit dimensions L x W x H, in (mm)	473 x 88 x 100 (12024 x 2225 x 2548)	
Unit operating weight, lb (kg)	24140 (10950)	
Unit shipping weight, lb (kg)	22487 (10200)	
Weight-add for copper fins	3553 (1612)	
Weight-add for louvered panels	1460 (662)	
Weight-add for sound enclosures	477 (216)	
<b>Compressors, Screw, Semi-Hermetic</b>		
Nominal capacity, tons (kW)	175 (615)	175 (615)
Minimum capacity (% of full load)	15	
Oil charge per circuit, gallons (liters)	6 (23)	6 (23)
<b>Condensers, High Efficiency Fin and Tube Type</b>		
Pumpdown capacity, lb (kg)	500 (227)	500 (227)
Coil inlet face area, ft <sup>2</sup> (m <sup>2</sup> )	295.3 (27.4)	295.3 (27.4)
Rows deep/fins per inch	3 / 16	3 / 16
<b>Condenser Fans, Direct Drive Propeller Type</b>		
No. of fans/circuit—fan dia., in (mm)	7–31.5 (800)	
Fan motors—hp (kW) / rpm	1.4 (1.05) / 850	
Fan tip speed, fpm (m/s)	6984 (35)	
Airflow, cfm (L/s)	266040 (125556)	
<b>Evaporator, Direct Expansion Shell and Tube</b>		
Shell dia. tube length, in (mm)	26 x 154 / (660 x 3900)	
Water volume, gallons (L)	254 (963)	
Victaulic inlet/outlet conn. in. (mm)	10 (273)	
Max. water / refig. pressure, psi (kPa)	152 (1048) / 325 (2241)	

## AGS Air-Cooled Screw Comp. Chiller (Remote Evap.), Std. Efficiency—Physical Data

### AGS 225DM through 250DM, Remote Evaporator, Standard Efficiency, R-134a

Data	AGS model number			
	225DM		250DM	
	Circuit 1	Circuit 2	Circuit 1	Circuit 2
<b>Basic data</b>				
Unit cap. @ ARI conditions, tons (kW) <sup>1, 4</sup>	211.2 (742.6)		231.6 (814.3)	
Unit operating charge, lb (kg) <sup>3</sup>	185 (84)	185 (84)	210 (95)	210 (95)
Cabinet dimensions L x W x H, in (mm)	243 x 88 x 97 (6172 x 2225 x 2464)		279 x 88 x 97 (7087 x 2225 x 2464)	
Unit operating weight, lb (kg) <sup>2</sup>	10,814 (4905)		11,518 (5224)	
Unit shipping weight, lb (kg) <sup>2</sup>	10,814 (4905)		11,518 (5224)	
<b>Compressors, screw, semi-hermetic</b>				
Nominal capacity, tons (kW)	100 (350)	100 (350)	100 (350)	125 (437)
Minimum capacity (% of full load)	13		11	
<b>Condensers, high efficiency fin and tube type with integral subcooler</b>				
Pumpdown capacity, lbs (kg)	249 (113)	249 (113)	287 (130)	287 (130)
Coil inlet face area, ft <sup>2</sup> (m <sup>2</sup> )	129.2 (12.0)	129.2 (12.0)	150.8 (14.0)	150.8 (14.0)
<b>Condenser fans, direct drive propeller type</b>				
No. of fans/circuit—fan dia., in (mm)	6–30 (762)	6–30 (762)	7–30 (762)	7–30 (762)
Fan motor hp (kW)	2.5 (1.8)		2.5 (1.8)	
Fan and motor rpm, 60Hz	1140		1140	
60 Hz fan tip speed, fpm (m/s)	8954 (45)		8954 (45)	
60 Hz total unit airflow, cfm (L/s)	137,328 (64,819)		160,216 (75,622)	
<b>Evaporator, direct expansion shell and tube</b>				
Shell dia. tube length, in (mm)	16 x 108 (406 x 2750)		16 x 108 (406 x 2750)	
Water volume, gallons (L)	65.8 (249.4)		65.8 (249.4)	
Max. water pressure, psi (kPa)	152 (1048)		152 (1048)	
Max. refrigerant press., psi (kPa)	350 (2413)		350 (2413)	

# Air-Cooled Chillers

## AGS 275DM through 300DM, Remote Evaporator, Standard Efficiency, R-134a

Data	AGS model number			
	275DM		300DM	
	Circuit 1	Circuit 2	Circuit 1	Circuit 2
<b>Basic data</b>				
Unit cap. @ ARI conditions, tons (kW)	263.1 (925.1)		297.0 (1042.5)	
Unit operating charge, lb (kg)	210 (95)	240 (109)	240 (109)	240 (109)
Cabinet dimensions L x W x H, in (mm)	314 x 88 x 97 (7984 x 2225 x 2464)		314 x 88 x 97 (7984 x 2225 x 2464)	
Unit operating weight, lb (kg)	12,226 (5546)		12,226 (5546)	
Unit shipping weight, lb (kg)	12,226 (5546)		12,226 (5546)	
<b>Compressors, screw, semi-hermetic</b>				
Nominal capacity, tons (kW)	125 (437)	150 (525)	150 (525)	150 (525)
Minimum capacity (% of full load)	11		13	
<b>Condensers, high efficiency fin and tube type with integral subcooler</b>				
Pumpdown capacity, lbs (kg)	287 (130)	325 (148)	325 (148)	325 (148)
Coil inlet face area, ft <sup>2</sup> (m <sup>2</sup> )	150.8 (14.0)	172.5 (16.0)	172.5 (16.0)	172.5 (16.0)
<b>Condenser fans, direct drive propeller type</b>				
No. of fans/circuit—fan dia., in (mm)	8–30 (762)	8–30 (762)	8–30 (762)	8–30 (762)
Fan motor - hp (kW)	2.5 (1.8)		2.5 (1.8)	
Fan and motor rpm, 60Hz	1140		1140	
60 Hz fan tip speed, fpm (m/s)	8954 (45)		8954 (45)	
60 Hz total unit airflow, cfm (L/s)	183,104 (86,425)		183,104 (86,425)	
<b>Evaporator, direct expansion shell and tube</b>				
Shell dia. tube length, in (mm)	20 x 108 (508 x 2750)		20 x 108 (508 x 2750)	
Water volume, gallons (L)	108.5 (411.1)		103.2 (391.2)	
Max. water pressure, psi (kPa)	152 (1048)		152 (1048)	
Max. refrigerant press., psi (kPa)	350 (2413)		350 (2413)	

## AGS 330DM through 360DM, Remote Evaporator, Standard Efficiency, R-134a

Data	AGS model number								
	330DM			350DM			360DM		
	Circuit 1	Circuit 2	Circuit 3	Circuit 1	Circuit 2	Circuit 3	Circuit 1	Circuit 2	Circuit 3
<b>Basic data</b>									
Unit cap. @ ARI conditions, tons (kW) <sup>1, 4</sup>	318.7 (1120.5)			337.2 (1185.6)			351.1 (1234.5)		
Unit operating charge, lb (kg) <sup>3</sup>	210 (95)	210 (95)	190 (86)	210 (95)	210 (95)	190 (86)	210 (95)	210 (95)	190 (86)
Cabinet dimensions L x W x H, in (mm)	403 x 88 x 97 (10,239 x 2225 x 2459)			403 x 88 x 97 (10,239 x 2225 x 2459)			403 x 88 x 97 (10,239 x 2225 x 2459)		
Unit operating weight, lb (kg) <sup>2</sup>	17,798 (8073)			17,798 (8073)			17,798 (8073)		
Unit shipping weight, lb (kg) <sup>2</sup>	17,798 (8073)			17,798 (8073)			17,798 (8073)		
<b>Compressors, screw, semi-hermetic</b>									
Nominal capacity, tons (kW)	100 (350)	100 (350)	100 (350)	100 (350)	125 (437)	100 (350)	125 (437)	125 (437)	100 (350)
Minimum capacity, (% of full load)	8			8			7		
<b>Condensers, high efficiency fin and tube type with integral subcooler</b>									
Pumpdown capacity, lbs (kg)	287 (130)	287 (130)	243 (110)	287 (130)	287 (130)	243 (110)	287 (130)	287 (130)	243 (110)
Coil inlet face area, ft <sup>2</sup> (m <sup>2</sup> )	150.8 (14)	150.8 (14)	128.5 (12)	150.8 (14)	150.8 (14)	128.5 (12)	150.8 (14)	150.8 (14)	128.5 (12)
<b>Condenser fans, direct drive propeller type</b>									
No. of fans/circuit—30 in (762 mm) fan dia.	7	7	6	7	7	6	7	7	6
Fan motor - hp (kW)	2.5 (1.8)			2.5 (1.8)			2.5 (1.8)		
Fan and motor rpm, 60Hz	1140			1140			1140		
60 Hz fan tip speed, fpm (m/s)	8954 (45)			8954 (45)			8954 (45)		
60 Hz total unit airflow, cfm (L/s)	228,880 (108,031)			228,880 (108,031)			228,880 (108,031)		
<b>Evaporator, direct expansion shell and tube</b>									
Shell dia. tube length, in (mm)	20 x 108 (508 x 2750)			20 x 108 (508 x 2750)			20 x 108 (508 x 2750)		
Water volume, gallons (L)	107.0 (405.4)			107.0 (405.4)			103.2 (391.2)		
Max. water pressure, psi (kPa)	152 (1048)			152 (1048)			152 (1048)		
Max. refrigerant press., psi (kPa)	350 (2413)			350 (2413)			350 (2413)		

# Air-Cooled Chillers

## AGS 390DM through 450DM, Remote Evaporator, Standard Efficiency, R-134a

Data	AGS model number								
	390DM			400DM			450DM		
	Circuit 1	Circuit 2	Circuit 3	Circuit 1	Circuit 2	Circuit 3	Circuit 1	Circuit 2	Circuit 3
<b>Basic data</b>									
Unit cap. @ ARI conditions, tons (kW)	373.2 (1311.8)			390.4 (1373.3)			434.8 (1529.1)		
Unit operating charge, lb (kg)	210 (95)	210 (95)	230 (104)	215 (97)	215 (97)	235 (106)	140 (109)	140 (109)	140 (109)
Cabinet dimensions L × W × H, in (mm)	439 × 88 × 97 (11,140 × 2225 × 2459)			439 × 88 × 97 (11,140 × 2225 × 2459)			474 × 88 × 97 (12,040 × 2225 × 2459)		
Unit operating weight, lb (kg)	18,632 (8451)			18,632 (8451)			18,632 (8451)		
Unit shipping weight, lb (kg)	18,632 (8451)			18,632 (8451)			18,632 (8451)		
<b>Compressors, screw, semi-hermetic</b>									
Nominal capacity, tons (kW)	125 (437)	125 (437)	125 (437)	125 (437)	125 (437)	150 (525)	150 (525)	150 (525)	150 (525)
Minimum capacity, (% of full load)	8			8			8		
<b>Condensers, high efficiency fin and tube type with integral subcooler</b>									
Pumpdown capacity, lbs (kg)	287 (130)	287 (130)	316 (144)	287 (130)	287 (130)	316 (144)	287 (130)	287 (130)	316 (144)
Coil inlet face area, ft <sup>2</sup> (m <sup>2</sup> )	150.8 (14)	150.8 (14)	171.7 (16)	150.8 (14)	150.8 (14)	171.7 (16)	172.5 (16)	172.5 (16)	171.7 (16)
<b>Condenser fans, direct drive propeller type</b>									
No. of fans/circuit—30 in (762 mm) fan dia.	7	7	8	7	7	8	8	8	8
Fan motor - hp (kW)	2.5 (1.8)			2.5 (1.8)			2.5 (1.8)		
Fan and motor rpm, 60Hz	1140			1140			1140		
60 Hz fan tip speed, fpm (m/s)	8954 (45)			8954 (45)			8954 (45)		
60 Hz total unit airflow, cfm (L/s)	251,768 (118,835)			251,768 (118,835)			274,656 (129,637)		
<b>Evaporator, direct expansion shell and tube</b>									
Shell dia. tube length, in (mm)	20 × 108 (508 × 2750)			20 × 149 (508 × 3785)			20 × 149 (508 × 3785)		
Water volume, gallons (L)	103.2 (391.2)			97.2 (368.5)			97.2 (368.5)		
Max. water pressure, psi (kPa)	152 (1048)			152 (1048)			152 (1048)		
Max. refrigerant press., psi (kPa)	350 (2413)			350 (2413)			350 (2413)		

## AGS Air-Cooled Screw Comp. Chiller (Remote Evap.), High Efficiency—Physical Data

### AGS 225DF through 260DF, Remote Evaporator, High Efficiency, R-134a

Data	AGS model number					
	225DF		250DF		260DF	
	Circuit 1	Circuit 2	Circuit 1	Circuit 2	Circuit 1	Circuit 2
<b>Basic data</b>						
Unit cap. @ ARI conditions, tons (kW) <sup>1,4</sup>	214.9 (755.6)		235.5 (828.0)		249.6 (877.6)	
Unit operating charge, lb (kg) <sup>3</sup>	210 (95)	210 (95)	210 (95)	210 (95)	240 (109)	240 (109)
Cabinet dimensions L × W × H, in (mm)	279 × 88 × 97 (7087 × 2225 × 2464)		314 × 88 × 97 (7984 × 2225 × 2464)		314 × 88 × 97 (7984 × 2225 × 2464)	
Unit operating weight, lb (kg) <sup>2</sup>	11,518 (5224)		12,226 (5546)		12,226 (5546)	
Unit shipping weight, lb (kg) <sup>2</sup>	11,518 (5224)		12,226 (5546)		12,226 (5546)	
<b>Compressors, screw, semi-hermetic</b>						
Nominal capacity, tons (kW)	100 (350)	100 (350)	100 (350)	125 (437)	125 (437)	125 (437)
Minimum capacity (% of full load)	13		11		13	
<b>Condensers, high efficiency fin and tube type with integral subcooler</b>						
Pump capacity, lbs (kg)	249 (113)	249 (113)	287 (130)	287 (130)	325 (147)	325 (147)
Coil inlet face area, ft <sup>2</sup> (m <sup>2</sup> )	150.8 (14)	150.8 (14)	150.8 (14)	172.5 (16)	172.5 (16)	172.5 (16)
<b>Condenser fans, direct drive propeller type</b>						
No. of fans/circuit—30 in (762 mm) fan dia.	7	7	8	8	8	8
Fan motor hp (kW)	2.5 (1.8)		2.5 (1.8)		2.5 (1.8)	
Fan and motor rpm, 60Hz	1140		1140		1140	
60 Hz fan tip speed, fpm (m/s)	8954 (45)		8954 (45)		8954 (45)	
60 Hz total unit airflow, cfm (L/s)	160,216 (75,622)		183,104 (86,425)		183,104 (86,425)	
<b>Evaporator, direct expansion shell and tube</b>						
Shell dia. tube length, in (mm)	16 × 108 (406 × 2750)		16 × 108 (406 × 2750)		20 × 108 (508 × 2750)	
Water volume, gallons (L)	63.6 (241)		63.6 (241)		108.5 (411.1)	
Max. water pressure, psi (kPa)	152 (1048)		152 (1048)		152 (1048)	
Max. refrigerant press., psi (kPa)	350 (2413)		350 (2413)		350 (2413)	



# Air-Cooled Chillers

## AGS 275DF through 300DF, Remote Evaporator, High Efficiency, R-134a

Data	AGS model number			
	275DF		300DF	
	Circuit 1	Circuit 2	Circuit 1	Circuit 2
<b>Basic data</b>				
Unit cap. @ ARI conditions, tons (kW)	267.6 (940.9)		299.5 (1053)	
Unit operating charge, lb (kg)	240 (109)	260 (118)	265 (120)	265 (120)
Cabinet dimensions L x W x H, in (mm)	350 x 88 x 97 (8890 x 2225 x 2464)		350 x 88 x 97 (8890 x 2225 x 2464)	
Unit operating weight, lb (kg)	13,027 (5909)		13,027 (5909)	
Unit shipping weight, lb (kg)	13,027 (5909)		13,027 (5909)	
<b>Compressors, screw, semi-hermetic</b>				
Nominal capacity, tons (kW)	125 (437)	150 (525)	150 (525)	150 (525)
Minimum capacity (% of full load)	11		13	
<b>Condensers, high efficiency fin and tube type with integral subcooler</b>				
Pumpdown capacity, lbs (kg)	325 (147)	361 (164)	361 (164)	361 (164)
Coil inlet face area, ft <sup>2</sup> (m <sup>2</sup> )	172.5 (16)	194.2 (18)	194.2 (18)	194.2 (18)
<b>Condenser fans, direct drive propeller type</b>				
No. of fans/circuit—30 in (762 mm) fan dia.	9	9	9	9
Fan motor - hp (kW)	2.5 (1.8)		2.5 (1.8)	
Fan and motor rpm, 60Hz	1140		1140	
60 Hz fan tip speed, fpm (m/s)	8954 (45)		8954 (45)	
60 Hz total unit airflow, cfm (L/s)	205,992 (97,228)		205,992 (97,228)	
<b>Evaporator, direct expansion shell and tube</b>				
Shell dia. tube length, in (mm)	20 x 108 (508 x 2750)		20 x 108 (508 x 2750)	
Water volume, gallons (L)	108.5 (411.1)		103.2 (391.2)	
Max. water pressure, psi (kPa)	152 (1048)		152 (1048)	
Max. refrigerant press., psi (kPa)	350 (2413)		350 (2413)	

## AGS 330DF through 350DF, Remote Evaporator, High Efficiency, R-134a

Data	AGS model number					
	330DF			350DF		
	Circuit 1	Circuit 2	Circuit 3	Circuit 1	Circuit 2	Circuit 3
<b>Basic data</b>						
Unit cap. @ ARI conditions, tons (kW) <sup>1, 4</sup>	324.1 (1139.6)			342.9 (1205.6)		
Unit operating charge, lb (kg) <sup>3</sup>	210 (95)	210 (95)	230 (104)	210 (95)	240 (109)	240 (109)
Cabinet dimensions L x W x H, in (mm)	439 x 88 x 97 11,140 x 2225 x 2459)			474 x 88 x 97 (12,040 x 2225 x 2459)		
Unit operating weight, lb (kg) <sup>2</sup>	18,632 (8451)			19,305 (8757)		
Unit shipping weight, lb (kg) <sup>2</sup>	18,632 (8451)			19,305 (8757)		
<b>Compressors, screw, semi-hermetic</b>						
Nominal capacity, tons (kW)	100 (350)	100 (350)	100 (350)	100 (350)	125 (437)	100 (350)
Nominal capacity, (% of full load)	8			8		
<b>Condensers, high efficiency fin and tube type with integral subcooler</b>						
Pumpdown capacity, lbs (kg)	287 (130)	287 (130)	316 (144)	325 (147)	325 (147)	316 (144)
Coil inlet face area, ft <sup>2</sup> (m <sup>2</sup> )	150.8 (14)	150.8 (14)	171.7 (16)	150.8 (14)	172.5 (16)	171.7 (16)
<b>Condenser fans, direct drive propeller type</b>						
No. of fans/circuit—30 in (762 mm) fan dia.	7	7	8	8	8	8
Fan motor - hp (kW)	2.5 (1.8)			2.5 (1.8)		
Fan and motor rpm, 60Hz	1140			1140		
60 Hz fan tip speed, fpm (m/s)	8954 (45)			8954 (45)		
60 Hz total unit airflow, cfm (L/s)	251,768 (118,834)			274,656 (129,638)		
<b>Evaporator, direct expansion shell and tube</b>						
Shell dia. tube length, in (mm)	20 x 108 (508 x 2750)			20 x 108 (508 x 2750)		
Water volume, gallons (L)	103.2 (391.2)			102.1 (387)		
Max. water pressure, psi (kPa)	152 (1048)			152 (1048)		
Max. refrigerant press., psi (kPa)	350 (2413)			350 (2413)		

# Air-Cooled Chillers

## AGS 400DF through 450DF, Remote Evaporator, High Efficiency, R-134a

Data	AGS model number					
	400DF			450DF		
	Circuit 1	Circuit 2	Circuit 3	Circuit 1	Circuit 2	Circuit 3
<b>Basic data</b>						
Unit cap. @ ARI conditions, tons (kW)	397.1 (1396.6)			438.0 (1540.0)		
Unit operating charge, lb (kg)	240 (109)	240 (109)	240 (109)	270 (122)	270 (122)	240 (109)
Cabinet dimensions L × W × H, in (mm)	474 x 88 x 97 (12,040 x 2225 x 2459)			509 x 88 x 97 12,939 x 2225 x 2459)		
Unit operating weight, lb (kg)	19,305 (8757)			20,294 (9205)		
Unit shipping weight, lb (kg)	19,305 (8757)			20,383 (9205)		
<b>Compressors, screw, semi-hermetic</b>						
Nominal capacity, tons (kW)	125 (437)	125 (437)	150 (525)	150 (525)	150 (525)	150 (525)
Minimum capacity (% of full load)	8			7		
<b>Condensers, high efficiency fin and tube type with integral subcooler</b>						
Pumpdown capacity, lbs (kg)	325 (147)	325 (147)	316 (144)	361 (164)	361 (164)	316 (144)
Coil inlet face area, ft <sup>2</sup> (m <sup>2</sup> )	172.5 (16)	172.5 (16)	171.7 (16)	172.5 (16.0)	194.2 (18)	171.7 (16)
<b>Condenser fans, direct drive propeller type</b>						
No. of fans/circuit—30 in (762 mm) fan dia.	8	8	8	9	9	8
Fan motor - hp (kW)	2.5 (1.8)			2.5 (1.8)		
Fan and motor rpm, 60Hz	1140			1140		
60 Hz fan tip speed, fpm (m/s)	8954 (45)			8954 (45)		
60 Hz total unit airflow, cfm (L/s)	274,656 (129,638)			297,544 (140,440)		
<b>Evaporator, direct expansion shell and tube</b>						
Shell dia. tube length, in (mm)	20 x 142 (508 x 3600)			20 x 142 (508 x 142)		
Water volume, gallons (L)	90.5 (343)			90.5 (343.0)		
Max. water pressure, psi (kPa)	152 (1048)			152 (1048)		
Max. refrigerant press., psi (kPa)	350 (2413)			350 (2413)		