

SUBMITTAL DATA SHEET

ComfortStar®

CGS18CD(I)/CGS18CD(O)

18,000 BTU/H(208/230V) Wall Mounted Heat Pump System

Location: _____
 Engineer: _____
 Submitted to: _____
 Submitted by: _____
 Reference: _____

Approval: _____
 Date: _____
 Construction: _____
 Unit #: _____
 Drawing #: _____

Set Model

Indoor unit model CGS18CD(I)
 Outdoor unit model CGS18CD(O)

Certified

AHRI

UL



ALEGRIA GOLD



SYSTEM PERFORMANCE DATA

Power supply

Normal Operational Voltage (V, Ph, Hz) 208/230, 1, 60
 Voltage Range (V) 187-253

Electrical

Minimum circuit ampacity (A) 15
 Max.fuse (A) 20
 Connection wiring 14*4 AWG

Cooling

Rated Capacity (Btu/h) 18000
 Capacity Range (Btu/h) 3900~20000
 Power Input (Max) (W) 1638
 Rated current (A) 7.5
 SEER2 (Btu/W) 19.5
 EER2 (Btu/W) 11.0

Heating at 47F

Rated Capacity (Btu/h) 18800
 Capacity Range (Btu/h) 6300~19400
 Power Input (Max) (W) 1806
 Rated current (A) 8.01
 HSPF2-4 (Btu/W) 8.7
 HSPF2-5 (Btu/W) 6.8
 COP W/W 3.05

Heating at 17F

Max Capacity (Btu/h) 12500

REFRIGERANT PIPE DATA

Design pressure (PSIG) 550/340
 Refrigerant Type (Oz) R410A/47.6
 Refrigerant precharge (ft) 25.0
 (m) 7.6
 Additional charge for each ft (oz/ft) 0.16
 (g/ft) 15
 Liquid side/ Gas side (inch) 1/4" / 1/2"
 (mm) $\Phi 6.35$ / $\Phi 12.7$
 Max. pipe length (ft) 98.0
 (m) 30
 Max. difference in level (ft) 66.0
 (m) 20
 Connection method (Flared)

Indoor(cooling/ heating) (Deg. °F) 60~90 / 32~86
 (Deg. °C) 16~32 / 0~30
 Outdoor(cooling/heating) (Deg. °F) 5~122 / 5~75
 (Deg. °C) -15~50 / -15~24
 Application area (sq.ft) 258.33~376.74
 (m2) 24~35

INDOOR UNIT DATA

Indoor fan motor

Type Cross-Flow
 Model ZKFP-30-8-3-10
 Qty 1
 Input (W) 36.0
 RLA (A) --
 LRA (A) --
 Winding Resistance (Ω) --
 Capacitor (uF) --
 Speed(Hi/Mi/Lo) (r/min) 1200/1000/700

Air flow & Noise level

Indoor air flow (Hi/Med/Lo) (No duct) (CFM) 458.82/329.41/270.59
 Indoor noise level (Hi/Med/Lo) [dB(A)] 45/38/30.0

Dehumidification

(Pint/H) --

Indoor unit

Dimension (WxDxH) (inch) 38.23x8.98x12.64
 (mm) 971x228x321
 Packing(WxDxH) (inch) 41.14x12.01x15.94
 (mm) 1045x305x405
 Net/Gross weight (lbs.) 24.47/31.75
 (kg) 11.1/14.4

OUTDOOR UNIT DATA

Compressor

Type KSN140D21UFZ
 Model ROTARY
 Brand GMCC
 Capacity (Btu/h) 14962.24106
 Input (W) 1140
 Rated current (RLA) (A) --
 Refrigerant oil/oil charge (ml) --
 Throttle Capillary

Outdoor fan motor

Model ZKFN-34-10-1-3
 Qty 1
 Input (W) --
 RLA (A) --
 Speed (r/min) 950/800/650/450

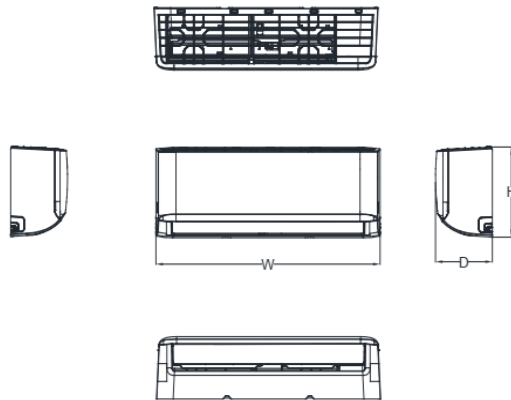
Air flow & Noise level

Outdoor air flow (Max.) (CFM) 1235.29
 Outdoor noise level [dB(A)] 57.00

Outdoor unit

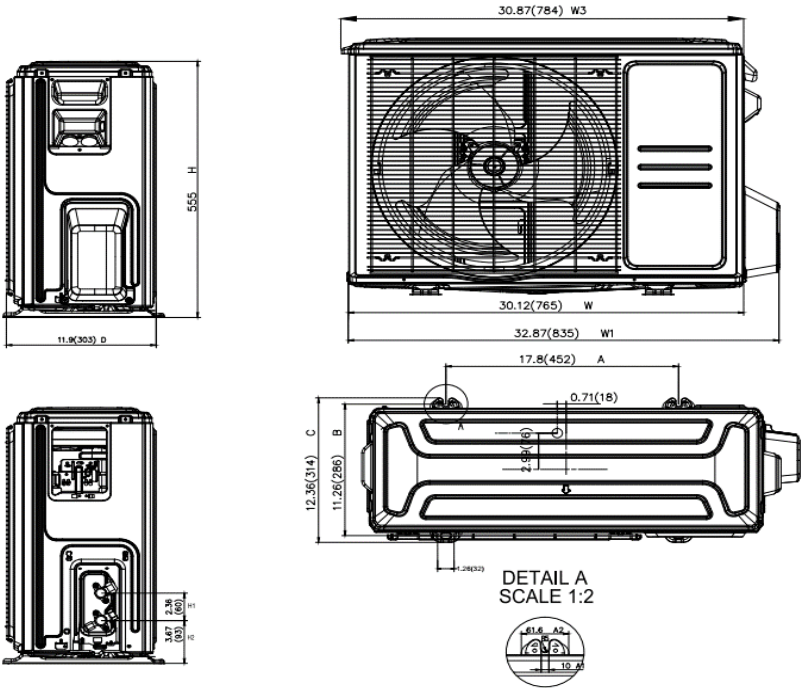
Dimension (W×D×H) (inch) 31.69x12.99x21.81
 (mm) 805x330x554
 Packing (W×D×H) (inch) 36.02x14.57x24.21
 (mm) 915x370x615
 Net/ Gross weight (lbs.) 73.85/79.81
 (kg) 33.5/36.2

Indoor unit dimension



Capacity	Body Code	W(mm/inch)	D(mm/inch)	H(mm/inch)
6K~11K	A	729/28.7	200/7.87	292/11.5
8K~14K	B	802/31.57	200/7.87	295/11.61
12K~21K	C	971/38.23	228/8.98	321/12.64
18K~28K	D	1082/42.6	234/9.21	337/13.27
27K~36K	F	1259/49.57	283/11.14	362/14.25

Outdoor unit dimension



General Features

Wireless Remote with LCD Display
46F Heating
Sleep Mode
Silent Mode
Self Clean
Follow Me (optional)

Extended Performance Data