

CEILING-MOUNT AIR HANDLERS

1½ TO 2½ TONS



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R32

Product Features

- All-Aluminum tube/aluminum fin coil
- Direct-drive, resilient-mount, multi-speed motor
- Sequence-controlled and rust-resistant nickel chromium heating elements of 5, 6, 8 and 10 kW
- High-efficiency evaporator coil
- Quiet operation
- ACST Models: Equipped with a factory installed and fully adjustable TXV for improved performance
- Factory installed casing along with mounting brackets for all tonnages
- Configurable front and bottom return for all tonnages
- Factory installed R-32 sensor designed for the lifespan of the coil
- Available in both factory-installed heater kit and No-Heater Kit options
- AHRI Certified; ETL Listed
- Primary/secondary drain connection in a high-temperature plastic drain pan
- Suitable for free-return installation (non-ducted return air)
- Galvanized-steel construction
- Factory-installed pull-type disconnect
- Easy service access
- Optimized for the use with R-32 refrigerant
- Cabinet air leakage less than 2% at 1 inch H₂O when tested in accordance with ASHRAE standard 193
- Cabinet air leakage less than 1.4% at 1 inch H₂O when tested in accordance with ASHRAE standard 193

10 YEAR PARTS LIMITED WARRANTY*



* Complete warranty available from your local dealer or at www.goodmanmfg.com. Limited Warranties vary by product model. To receive the 10-Year Parts Limited Warranty, online registration must be completed within 60 days of installation. The duration of warranty coverage may depend on the state in which you reside. Some states and provinces do not allow warranty coverage to be conditioned on registration. For a list of states and provinces that do not allow warranty coverage to be conditioned on registration, please visit www.goodmanmfg.com/warranty-information or, to request a paper copy of this information, please call us at 1-855-502-3903. Changes in law, regulations, or technology may result in an equivalent unit not being available. Other limitations and exclusions apply, refer to complete warranty details for full list of limitations and exclusions, as well as rights and obligations should an equivalent unit not be available.

A C S T 18 M U 1 3 05 A A													
* *													
1 2 3 4 5,6 7 8 9 10 11,12 13 14													
BRAND													MINOR REVISION
G - GOODMAN® BRAND AIR HANDLER A - CORPORATE AIR HANDLER													A
APPLICATION													MAJOR REVISION
C - CEILING MOUNTED M - MULTI-POSITIONAL W - WALL MOUNTED F - FIT COMPATIBLE MULTI-POSITION													A
MOTOR													ELECTRIC HEAT KW
S - MS-ECM V - VS-ECM COMMUNICATING													00: NO HEATER KIT
EXPANSION DEVICE													REFRIGERANT
E - ELECTRONIC EXPANSION VALVE F - FLOWRATOR T - THERMAL EXPANSION VALVE													3 - R32
NOMINAL CAPACITY													ELECTRICAL
12 - 1.0 TON 36 - 3.0 TONS 18 - 1.5 TONS 42 - 3.5 TONS 24 - 2.0 TONS 48 - 4.0 TONS 30 - 2.5 TONS 60 - 5.0 TONS													1 208/230 V, 1 PHASE, 60 Hz
													CABINET
													N - UNCASD P - PAINTED U - UNPAINTED
													CABINET WIDTH
													AC* Series AM* Series AW* Series M - 48.2" B - 17.5" S - 20.2" L - 54.2" C - 21.0" L - 36.05" D - 24.5"

	ACST18 MU1300AA	ACST18 MU1305AA	ACST18 MU1308AA	ACST24 LU1300AA	AST24 LU13 05AA	ACST24 LU1306AA	ACST24 LU1308AA
NOMINAL RATINGS							
Cooling (BTU/h)	18,000	18,000	18,000	24,000	24,000	24,000	24,000
BLOWER							
Diameter	6.3	6.3	6.3	6.7	6.7	6.7	6.7
Width	8.06	8.06	8.06	8.06	8.06	8.06	8.06
Coil Drain Connect FPT	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"
BLOWER MOTOR							
FLA	2	2	2	2	2	2	2
HP	1/4	1/4	1/4	1/4	1/4	1/4	1/4
REFRIGERANT LINE CONNECTION SIZE							
Liquid	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"
Suction	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"
ELECTRICAL DATA							
Voltage	208/230	208/230	208/230	208/230	208/230	208/230	208/230
Min Circuit Ampacity @ 230V	2.5	28.5	44.2	2.5	28.5	33.8	44.2
Min Circuit Ampacity @ 208V	2.5	25.1	38.6	2.5	25.1	29.6	38.6
Max. Overcurrent Device @ 230V	15	30	45	15	30	35	45
Max. Overcurrent Device @ 208V	15	30	40	15	30	30	40
Minimum Voltage VAC	197	197	197	197	197	197	197
Maximum Voltage VAC	253	253	253	253	253	253	253
ELECTRIC HEAT							
kW @ 230 Volts	0.0	5.0	8.0	0.0	5.0	6.0	8.0
BTU/h @ 230 Volts	0.0	15600.0	25000.0	0.0	15600.0	18800.0	25000.0
SHIP WEIGHT (LBS)	85	85	85	97	97	97	97

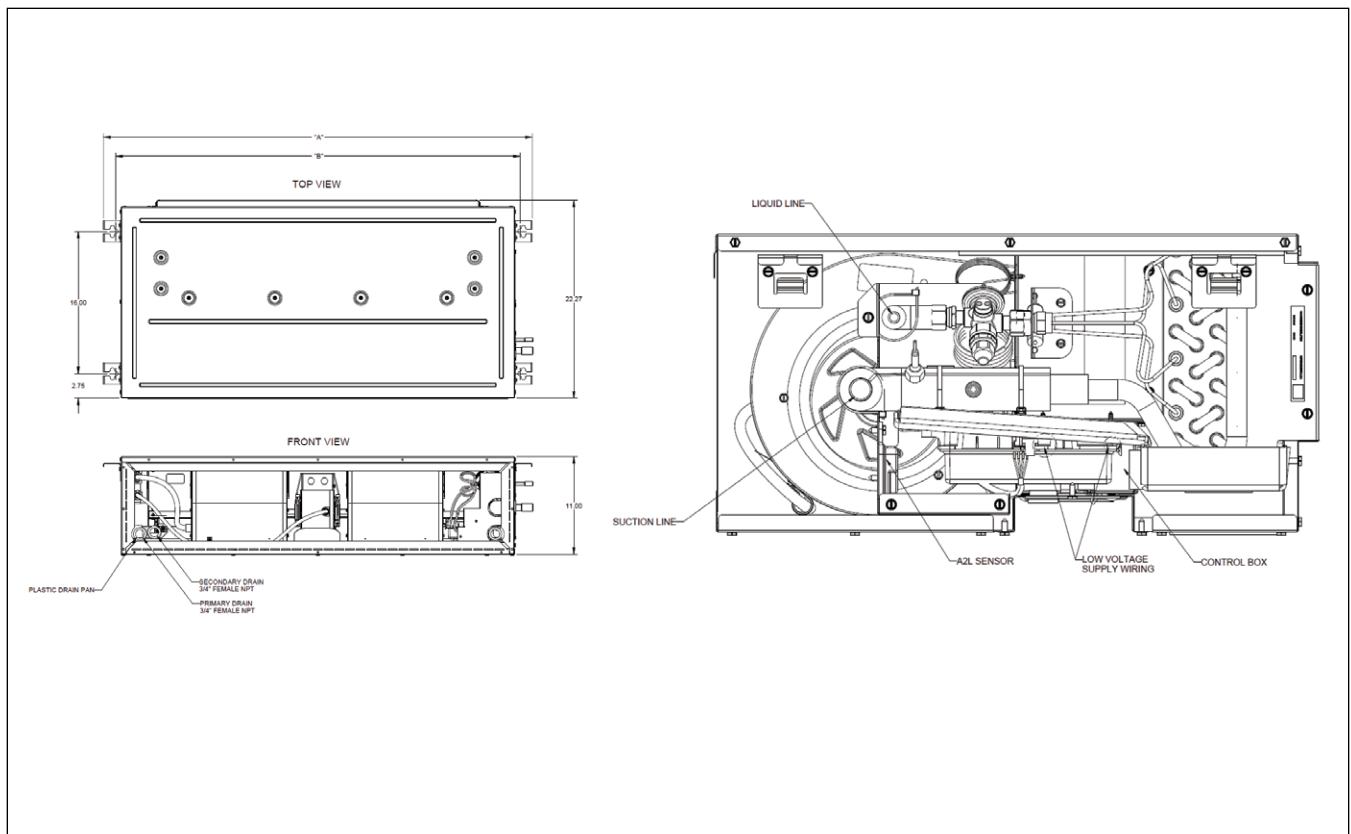
NOTES

- When the room thermostat calls for second stage heat, the first stage (heat pump) operation must be locked out. When matching the "AC" unit with a heat pump, order "HEAT PUMP SHUT OFF KIT HPSK-01."

	ACST24 LU1310AA	ACST30 LU1300AA	ACST30 LU1305AA	ACST30 LU1306AA	ACST30 LU1308AA	ACST30 LU1310AA
NOMINAL RATINGS						
Cooling (BTU/h)	24,000	30,000	30,000	30,000	30,000	30,000
BLOWER						
Diameter	6.7	6.7	6.7	6.7	6.7	6.7
Width	8.06	8.06	8.06	8.06	8.06	8.06
Coil Drain Connect FPT	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"
BLOWER MOTOR						
FLA	2	2	2	2	2	2
HP	1/4	1/4	1/4	1/4	1/4	1/4
REFRIGERANT LINE CONNECTION SIZE						
Liquid	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"
Suction	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"
ELECTRICAL DATA						
Voltage	208/230	208/230	208/230	208/230	208/230	208/230
Min Circuit Ampacity @ 230V	54.6	2.5	28.5	33.8	44.2	54.6
Min Circuit Ampacity @ 208V	47.6	2.5	25.1	29.6	38.6	47.6
Max. Overcurrent Device @ 230V	60	15	30	35	45	60
Max. Overcurrent Device @ 208V	50	15	30	30	40	50
Minimum Voltage VAC	197	197	197	197	197	197
Maximum Voltage VAC	253	253	253	253	253	253
ELECTRIC HEAT						
kW @ 230 Volts	10.0	0.0	5.0	6.0	8.0	10.0
BTU/h @ 230 Volts	31300.0	0.0	15600.0	18800.0	25000.0	31300.0
SHIP WEIGHT (LBS)	97	97	97	97	97	97

NOTES

- When the room thermostat calls for second stage heat, the first stage (heat pump) operation must be locked out. When matching the "AC" unit with a heat pump, order "HEAT PUMP SHUT OFF KIT HPSK-01."



	ACST18	ACST24	ACST30
A	48 $\frac{1}{5}$	54 $\frac{1}{5}$	54 $\frac{1}{5}$
B	45 $\frac{7}{16}$	51 $\frac{7}{16}$	51 $\frac{7}{16}$
C	36 $\frac{1}{5}$	42 $\frac{1}{5}$	42 $\frac{1}{5}$
D	6 $\frac{1}{2}$	6 $\frac{1}{2}$	6 $\frac{1}{2}$

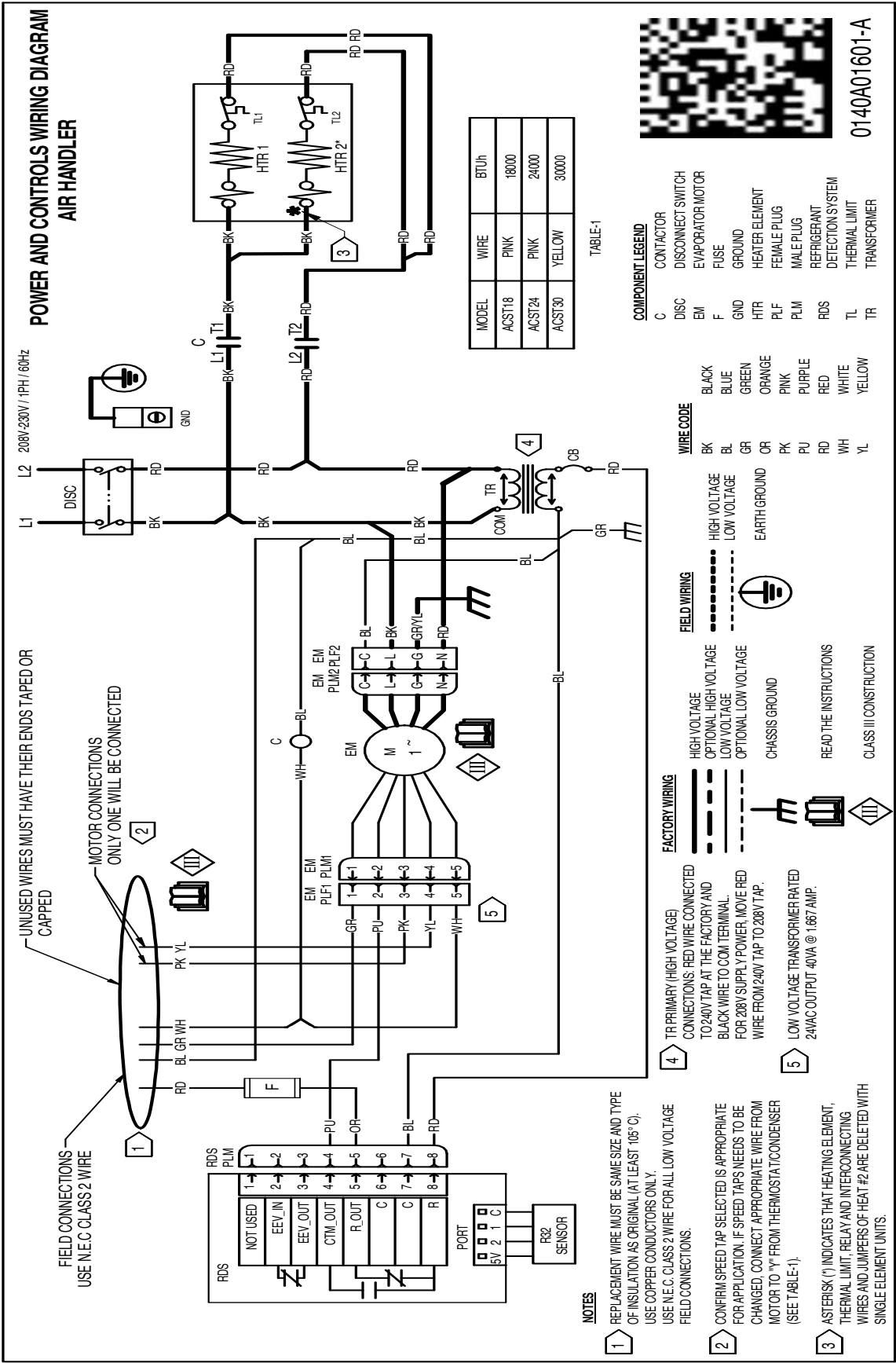
MODEL	MOTOR SPEED	AIRFLOW RATE DELIVERED AGAINST EXTERNAL STATIC PRESSURE, (CFM)				
		0.1"	0.2"	0.3"	0.4"	0.5"
ACST18MU13**AA	T1	631	583	538	506	452
	T2	631	583	538	506	452
	T3	694	645	601	557	516
	T4	831	776	729	685	605
	T5	831	776	729	685	605
ACST24LU13**AA ACST30LU13**AA	T1	829	766	721	674	631
	T2	829	766	721	674	631
	T3	869	820	773	728	686
	T4	934	883	840	793	743
	T5	934	883	840	793	743

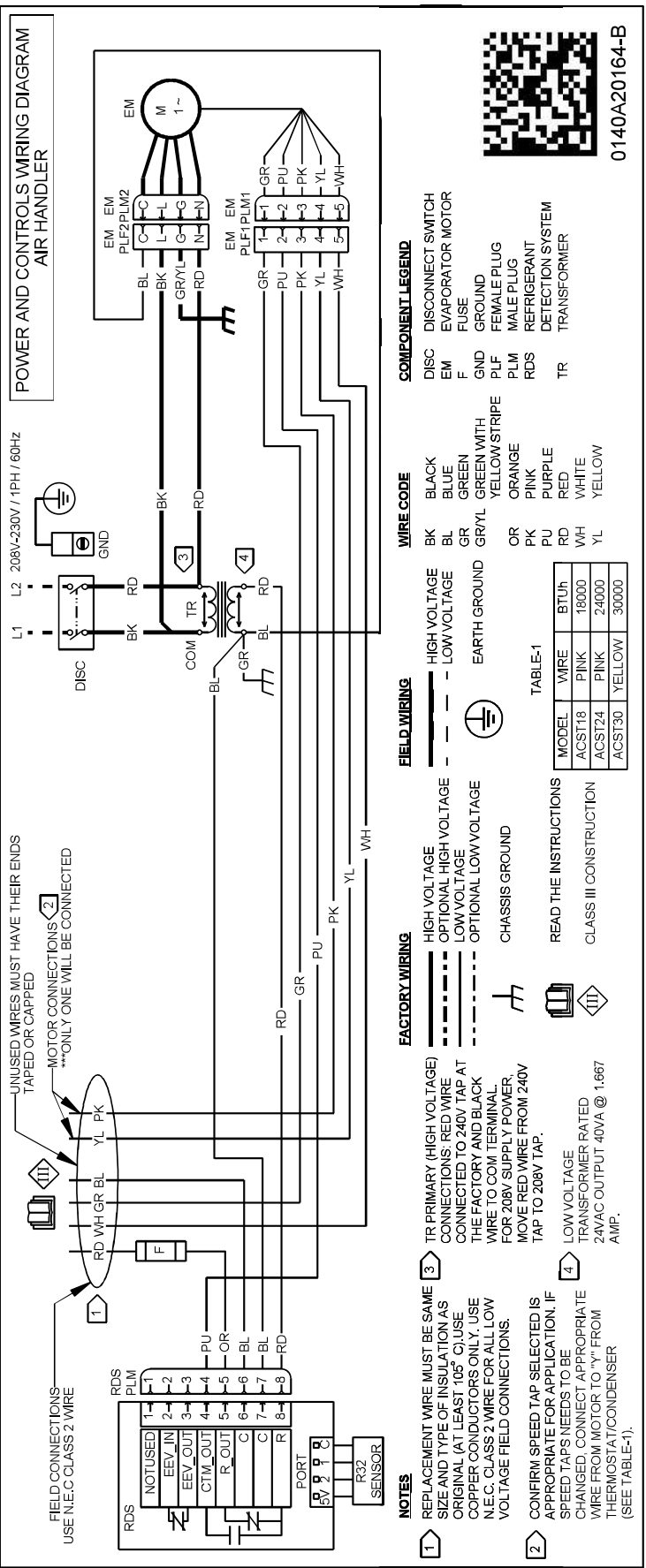
Note: Airflow data indicated is at 230 V with no filter in place.

HEATING CAPACITY/KW CORRECTION FACTOR

SUPPLY VOLTAGE	240	230	220	210	208
CORRECTION FACTOR	1.00	0.92	0.84	0.77	0.75

(Multiply the 240V heating capacity with correction factors)





Wiring is subject to change. Always refer to the wiring diagram on the unit for the most up-to-date wiring.

WARNING

High Voltage: Disconnect all power before servicing or installing this unit. Multiple power sources may be present. Failure to do so may cause property damage, personal injury, or death.

MODEL	DESCRIPTION
HPSK-01	Heat Pump Shut-off Relay Kit
LOUVERED CEILING ACCESS PANELS	
CAP-2/ 2L	ACST18
CAP-3/ 3L	ACST24/30

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