



Air Conditioning & Heating

HKTS

Electric Heat Kits for Air Handlers 3-25 kW Nominal Range



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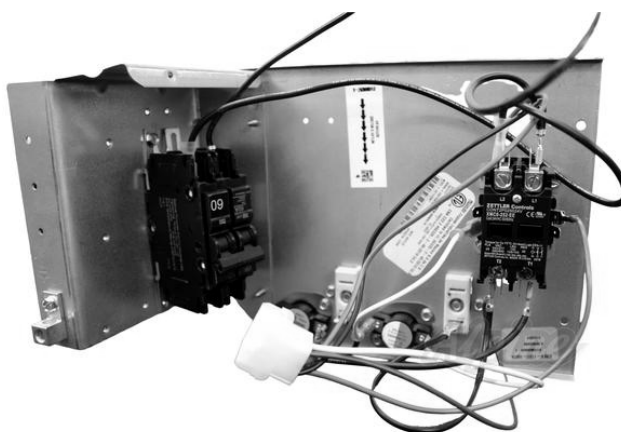
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Goodman HKTS electric heat kits provide supplemental electric heating for compatible air handlers, with a plug-in wiring connection for field installation.

Nominal sizes range from 3 to 25 kW, with electrical, cabinet and service-disconnect options by model.

Standard Features

- Field-installed electric resistance heat
- Nominal capacities from 3 to 25 kW
- Single-phase and three-phase models
- 208 V, 240 V and 208/240 V model options
- Models with or without service disconnect
- Plug-in multi-pin wiring connection
- All-cabinet, C-cabinet and D-cabinet designations, depending on model
- Multiple-circuit and single-point electrical data for applicable combinations



HKTS Series

Nominal 3-25 kW

Model-Specific Electrical Options

Supplier product illustrations. Configuration may vary; see document basis on page 3.

HKTS D 25 D 1					
Unit Type HKTS - Heat kit for air handlers			Electrical A - 208 V, single phase B - 240 V, single phase 1 - 208/240 V, single phase 3 - 208/240 V, three phase		
Service Disconnect D - Service disconnect N - No service disconnect			Cabinet Size X - All cabinet sizes C - C cabinet D - D cabinet		
Heating Capacity Code 03, 05, 06, 08, 10, 15, 19, 20, 25 See capacity table on page 3.					

Illustrative model-code structure from Goodman nomenclature; not an availability matrix.

Model Selection

Select the heat kit by the complete model number and the exact air-handler model and revision. Cabinet codes describe size compatibility within approved applications; they do not establish compatibility with every air handler. Not every combination of capacity, disconnect, cabinet and electrical codes is offered.

Electrical Options

Code	Electrical supply
A	208 V, single phase
B	240 V, single phase
1	208/240 V, single phase
3	208/240 V, three phase

The AMST tables on pages 4-6 identify the listed HKTS combinations, including D/N wildcard models, single-voltage A/B variants and three-phase kits. Those tables apply only to the AMST models shown.

Source: Goodman SS-GAMST-R32, 01/25, p. 2 and pp. 7-8. Published nomenclature is reproduced here for the HKTS family.

Heating Capacity by Model Code

Capacity code	Heating capacity at 240 V	Published limit note
03	3.0 kW	-
05	4.8 kW	-
06	6.0 kW	-
08	8.0 kW	-
10	9.6 kW	-
15	14.4 kW	-
19	19.2 kW	170 F limit
20	19.2 kW	160 F limit
20X3	18.0 kW	160 F limit; three-phase exception
25	24.0 kW	-

Capacity codes are nominal designations. Values above reproduce Goodman's published 240 V nomenclature; they do not imply that a 208 V-only model can be operated at 240 V.

Heating kW Correction Factor

Supply voltage	240	230	220	210	208
Correction factor	1.00	0.92	0.84	0.77	0.75

Multiply the applicable 240 V heating capacity by the correction factor for the supply voltage. Use only the voltage permitted by the selected model's rating. Btu/h = kW x 3,412.

Electrical Selection

Minimum circuit ampacity (MCA), maximum overcurrent protection (MOP), and minimum blower speed depend on the paired air handler. Use its rating plate and applicable heat-kit table. Heater current is not the complete system circuit requirement. The family manual calls for a "Disconnect Only" label below the breaker on kits 10 kW or smaller.

Document Basis

Goodman SS-GAMST-R32, 01/25: nomenclature and heat-kit data, pp. 2, 7-8.

Goodman HKS & HKTS Electric Heat Kit Installation Instructions.

Alpine AH-HKTSD05X1 listing: supplier product illustrations.

Compiled reference, not a manufacturer-issued submittal. Layout adapted from SS-GHKR. Supplier images are illustrative; Alpine states its branded kits may be manufactured by Goodman or Warren. Dimensions, warranty and certification badges are omitted because they were not verified in the cited Goodman literature.

Electrical ratings at 208 V / 240 V. All current and protection values are amperes.

AMST24BU1300AA

Heater Kit Model	Circuit 1 (208V/240V)			Circuit 2 (208V/240V)			Single-Point Kit (208V/240V)	
	Heater Amps	MCA 1	MOP 2	Heater Amps	MCA 1	MOP 2	MCA 1	MOP 2
AMST24BU1300AA	0/0	5.8/5.8	15/15	---	---	---	---	---
HKTSN03X1	10.8/12.5	19.2/21.4	20/25	---	---	---	---	---
HKTS*05X1	17.3/20.0	27.4/30.8	30/35	---	---	---	---	---
HKTSN06X1	21.7/25.0	32.9/37.0	35/40	---	---	---	---	---
HKTS*08X1	28.9/33.3	41.9/47.4	45/50	---	---	---	---	---
HKTS*10X1	34.7/40.0	49.1/55.8	50/60	---	---	---	---	---
HKTSD15XA/B	34.7/40.0	49.1/55.8	50/60	17.3/20	21.6/25	25/25	70.7/80.7	80/90

AMST30BU1300AA

Heater Kit Model	Circuit 1 (208V/240V)			Circuit 2 (208V/240V)			Single-Point Kit (208V/240V)	
	Heater Amps	MCA 1	MOP 2	Heater Amps	MCA 1	MOP 2	MCA 1	MOP 2
AMST30BU1300AA	0/0	5.6/5.6	15/15	---	---	---	---	---
HKTSN03X1	10.8/12.5	19.1/21.2	20/25	---	---	---	---	---
HKTS*05X1	17.3/20.0	27.2/30.6	30/35	---	---	---	---	---
HKTSN06X1	21.7/25.0	32.8/36.9	35/40	---	---	---	---	---
HKTS*08X1	28.9/33.3	41.8/47.2	45/50	---	---	---	---	---
HKTS*10X1	34.7/40.0	49.0/55.6	50/60	---	---	---	---	---
HKTSD15XA/B	34.7/40	49/55.6	50/60	17.3/20	21.6/25	25/25	70.6/80.6	80/90

AMST36BU1300AA

Heater Kit Model	Circuit 1 (208V/240V)			Circuit 2 (208V/240V)			Single-Point Kit (208V/240V)	
	Heater Amps	MCA 1	MOP 2	Heater Amps	MCA 1	MOP 2	MCA 1	MOP 2
AMST36BU1300AA	0/0	5.6/5.6	15/15	---	---	---	---	---
HKTSN03X1	10.8/12.5	19.1/21.2	20/25	---	---	---	---	---
HKTS*05X1	17.3/20.0	27.2/30.6	30/35	---	---	---	---	---
HKTSN06X1	21.7/25.0	32.8/36.9	35/40	---	---	---	---	---
HKTS*08X1	28.9/33.3	41.8/47.2	45/50	---	---	---	---	---
HKTS*10X1	34.7/40.0	49.0/55.6	50/60	---	---	---	---	---
HKTSD15XA/B	34.7/40	49/56	50/60	17.3/20	21.6/25	25/25	70.6/80.6	80/90

1 MCA: Minimum Circuit Ampacity = (Heater Amps + Motor Amps) x 1.25.

2 MOP: Maximum Overcurrent Protection = 2.25 x Motor Amps + Heater Amps.

^ Three-phase heater kits: Circuit 1 is single phase for the air handler; Circuit 2 is three phase for the heater kit.

* D = service disconnect; N = no service disconnect.

--- indicates Not Required. Values are reproduced as published, including model-specific differences.

Source: Goodman SS-GAMST-R32, 01/25, pp. 7-8. Refer to the matched unit rating plate.

Electrical ratings at 208 V / 240 V. All current and protection values are amperes.

AMST36CU1300AA

Heater Kit Model	Circuit 1 (208V/240V)			Circuit 2 (208V/240V)			Single-Point Kit (208V/240V)	
	Heater Amps	MCA 1	MOP 2	Heater Amps	MCA 1	MOP 2	MCA 1	MOP 2
AMST36CU1300AA	0/0	7.1/7.1	15/15	---	---	---	---	---
HKTSN03X1	10.8/12.5	20.6/22.8	25/25	---	---	---	---	---
HKTS*05X1	17.3/20.0	28.8/32.1	30/35	---	---	---	---	---
HKTSN06X1	21.7/25.0	34.2/38.4	35/40	---	---	---	---	---
HKTS*08X1	28.9/33.3	43.2/48.8	45/50	---	---	---	---	---
HKTS*10X1	34.7/40.0	50.5/57.1	60/60	---	---	---	---	---
HKTS*15X3^	0/0	7.1/7.1	15/15	30.0/34.6	37.5/43.3	40/45	---	---
HKTSD15XA/B	34.7/40	50.5/57.1	60/60	17.3/20	21.6/25	25/25	72.1/82.1	80/90
HKTSD19CA/B	34.7/40	50.5/57.1	60/60	34.7/40	43.4/50	45/50	93.8/107	100/110

AMST42CU1300AA

Heater Kit Model	Circuit 1 (208V/240V)			Circuit 2 (208V/240V)			Single-Point Kit (208V/240V)	
	Heater Amps	MCA 1	MOP 2	Heater Amps	MCA 1	MOP 2	MCA 1	MOP 2
AMST42CU1300AA	0/0	7.1/7.1	15/15	---	---	---	---	---
HKTSN03X1	10.8/12.5	20.6/22.8	20/25	---	---	---	---	---
HKTS*05X1	17.3/20.0	28.8/32.1	30/35	---	---	---	---	---
HKTSN06X1	21.7/25.0	34.2/38.4	35/40	---	---	---	---	---
HKTS*08X1	28.9/33.3	43.2/48.8	45/50	---	---	---	---	---
HKTS*10X1	34.7/40.0	50.5/57.1	60/60	---	---	---	---	---
HKTS*15X3^	0/0	7.1/7.1	15/15	30/34.6	37.5/43.3	40/45	---	---
HKTSD15XA/B	34.7/40	50.5/57.1	60/60	17.3/20	21.6/25	25/25	72.1/82.1	80/90
HKTSD19CA/B	34.7/40	50.5/57.1	60/60	34.7/40	43.4/50	45/50	93.8/107	100/110

1 MCA: Minimum Circuit Ampacity = (Heater Amps + Motor Amps) x 1.25.

2 MOP: Maximum Overcurrent Protection = 2.25 x Motor Amps + Heater Amps.

^ Three-phase heater kits: Circuit 1 is single phase for the air handler; Circuit 2 is three phase for the heater kit.

* D = service disconnect; N = no service disconnect.

--- indicates Not Required. Values are reproduced as published, including model-specific differences.

Source: Goodman SS-GAMST-R32, 01/25, pp. 7-8. Refer to the matched unit rating plate.

Electrical ratings at 208 V / 240 V. All current and protection values are amperes.

AMST48CU1300AA

Heater Kit Model	Circuit 1 (208V/240V)			Circuit 2 (208V/240V)			Single-Point Kit (208V/240V)	
	Heater Amps	MCA 1	MOP 2	Heater Amps	MCA 1	MOP 2	MCA 1	MOP 2
AMST48CU1300AA	0/0	7.1/7.1	15/15	---	---	---	---	---
HKTSN03X1	10.8/12.5	20.6/22.8	25/25	---	---	---	---	---
HKTS*05X1	17.3/20.0	28.8/32.1	30/35	---	---	---	---	---
HKTSN06X1	21.7/25.0	34.2/38.4	35/40	---	---	---	---	---
HKTS*08X1	28.9/33.3	43.2/48.8	45/50	---	---	---	---	---
HKTS*10X1	34.7/40	50.5/57.1	60/60	---	---	---	---	---
HKTS*15X3^	0/0	7.1/7.1	15/15	30.0/34.6	37.5/43.3	40/45	---	---
HKTSD15XA/B	34.7/40	50.5/57.1	60/60	17.3/20	21.6/25	25/25	72.1/82.1	80/90
HKTSD19CA/B	34.7/40	50.5/57.1	60/60	34.7/40	43.4/50	45/50	93.9/107	100/110

AMST60DU1300AA

Heater Kit Model	Circuit 1 (208V/240V)			Circuit 2 (208V/240V)			Single-Point Kit (208V/240V)	
	Heater Amps	MCA 1	MOP 2	Heater Amps	MCA 1	MOP 2	MCA 1	MOP 2
AMST60DU1300AA	0/0	8.6/8.6	15/15	---	---	---	---	---
HKTSN03X1	10.8/12.5	22.2/24.3	25/25	---	---	---	---	---
HKTS*05X1	17.3/20.0	30.3/33.6	35/35	---	---	---	---	---
HKTSN06X1	21.7/25.0	35.7/39.9	40/40	---	---	---	---	---
HKTS*08X1	28.9/33.3	44.7/50.3	45/60	---	---	---	---	---
HKTS*10X1	34.7/40.0	52.0/58.6	60/60	---	---	---	---	---
HKTS*15X3^	0/0	8.6/8.6	15/15	30.0/34.6	37.5/43.3	40/45	---	---
HKTSD15XA/B	34.7/40	52/58.6	60/60	17.3/20	21.7/25	25/25	73.6/83.6	80/90
HKTS*20X3^	0/0	8.6/8.6	15/15	37.5/43.3	46.9/54.1	50/60	---	---
HKTSD20DA/B	34.7/40	52/58.6	60/60	34.7/40	43.3/50	45/50	95.3/109	100/110
HKTSD25DA/B	34.7/40	52/58.6	60/60	52/60	65/75	70/80	117/134	125/150

1 MCA: Minimum Circuit Ampacity = (Heater Amps + Motor Amps) x 1.25.

2 MOP: Maximum Overcurrent Protection = 2.25 x Motor Amps + Heater Amps.

^ Three-phase heater kits: Circuit 1 is single phase for the air handler; Circuit 2 is three phase for the heater kit.

* D = service disconnect; N = no service disconnect.

--- indicates Not Required. Values are reproduced as published, including model-specific differences.

Source: Goodman SS-GAMST-R32, 01/25, pp. 7-8. Refer to the matched unit rating plate.