

15 kw heat strip wiring diagram

Decoding the 15 kW Heat Strip Wiring Diagram: Challenges, Opportunities, and Best Practices

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Editor: Mark Olsen, CEM – Mark Olsen is a Certified Energy Manager with over 30 years of experience in the electrical contracting industry. He has extensive knowledge of commercial and industrial electrical systems, including HVAC applications.

Keywords: 15 kW heat strip wiring diagram, heat strip wiring, 15 kW heater wiring, electric heat wiring diagram, high-power heating element wiring, HVAC wiring diagrams, commercial heating system wiring, industrial heating system wiring, electrical safety, heat strip installation

Abstract: This article provides a comprehensive examination of 15 kW heat strip wiring diagrams, highlighting the complexities involved in their design and installation. We explore the various configurations, safety considerations, and potential challenges encountered when working with such high-power heating elements. The article also examines opportunities for optimizing energy efficiency and reducing operational costs associated with 15 kW heat strip systems.

1. Understanding the 15 kW Heat Strip Wiring Diagram: A Foundation

A 15 kW heat strip wiring diagram is a crucial document for the safe and efficient installation of high-power electric heating systems. Unlike smaller residential heating elements, a 15 kW system requires careful consideration of voltage, amperage, wiring gauge, circuit breaker sizing, and overall electrical load. The diagram itself details the precise connection points for each heat strip, the control circuitry, and the connection to the main power supply. Understanding this diagram is paramount for electricians and technicians involved in the installation, maintenance, and troubleshooting of these systems. A typical diagram will show the arrangement of the heating elements, often in parallel or series-parallel configurations, to achieve the desired 15 kW output. The

specifics will depend on the manufacturer and the exact model of the heat strip system.

2. Challenges in Working with a 15 kW Heat Strip Wiring Diagram

Several challenges are associated with interpreting and implementing a 15 kW heat strip wiring diagram. These include:

High Amperage: A 15 kW system at 240V requires significant amperage (approximately 62.5 amps), demanding heavy-gauge wiring (likely 4/0 or larger) and appropriately sized circuit breakers and disconnects. Improper sizing can lead to overheating, fire hazards, and premature failure of components.

Voltage Drop: Long wire runs can cause significant voltage drop, reducing the efficiency of the heat strips and potentially causing malfunctions. Careful calculations and possibly the use of larger gauge wire are necessary to minimize this effect.

Overcurrent Protection: Selecting the right circuit breaker and ensuring its proper coordination with other protective devices (e.g., fuses) is crucial for safety. An incorrect selection could lead to nuisance tripping or, worse, a failure to protect the system from overcurrents.

Grounding and Bonding: Proper grounding and bonding are essential for safety in any electrical system, particularly one handling high power levels. The diagram should clearly indicate grounding requirements and best practices.

Heat Dissipation: 15 kW heat strips generate significant heat, requiring adequate ventilation and heat dissipation to prevent overheating of the equipment and surrounding areas. The wiring itself must also be appropriately rated for the expected operating temperatures.

Complexity of Control Circuits: Larger systems might incorporate sophisticated control circuits, such as thermostats, timers, and safety interlocks. Understanding the interactions within these circuits is essential for troubleshooting and maintenance. The wiring diagram must clearly indicate the connections and functionality of each control element.

3. Opportunities Presented by 15 kW Heat Strip Systems

Despite the challenges, 15 kW heat strip systems offer several advantages:

High Heating Capacity: They provide efficient high-capacity heating suitable for large spaces, industrial applications, or areas requiring rapid heating.

Precise Temperature Control: Modern systems frequently incorporate advanced control systems that enable precise temperature regulation, optimizing energy efficiency and comfort.

Rapid Heat-Up: Compared to some other heating methods, heat strips provide quick and efficient heating, reducing energy waste during the initial warm-up period.

Reliability: When properly installed and maintained, heat strip systems are generally reliable and have a long lifespan.

Energy Efficiency (with proper control): Employing intelligent controls and zoning strategies can significantly improve energy efficiency in larger spaces.

4. Best Practices for Working with 15 kW Heat Strip Wiring Diagrams

Thorough Review: Carefully review the 15 kW heat strip wiring diagram before starting any work. Verify that you understand each component's function and its connection points.

Voltage and Amperage Calculations: Always perform accurate calculations to determine the correct wire gauge, circuit breaker size, and other electrical parameters.

Compliance with Codes: Ensure all installations comply with relevant national and local electrical codes (e.g., NEC in the US).

Safety Precautions: Follow all safety precautions when working with high-voltage electrical systems. Use appropriate personal protective equipment (PPE), including insulated tools and gloves.

Testing and Inspection: After installation, perform thorough testing and inspection to ensure the system operates correctly and safely. Engage in regular maintenance checks to prevent future problems.

Documentation: Maintain clear and accurate records of the installation, including any modifications or repairs. This is essential for future maintenance and troubleshooting.

5. Analyzing Different 15 kW Heat Strip Wiring Diagram Configurations

The specific configuration of a 15 kW heat strip wiring diagram will vary based on the manufacturer and the overall design of the heating system. Common configurations include parallel and series-parallel arrangements of individual heat strips. A parallel configuration distributes the load evenly across multiple circuits, while a series-parallel arrangement might be used to optimize voltage and amperage requirements.

Understanding the implications of each configuration is essential for correct installation and troubleshooting. Analyzing the diagram for specific markings and details provided by the manufacturer is crucial to properly understand the system's operation and safety requirements. The use of color-coded wires and clear labeling are essential for ease of understanding and maintenance.

Conclusion

Working with a 15 kW heat strip wiring diagram requires expertise and a meticulous approach. Understanding the challenges associated with high-power electrical systems is crucial for safe and efficient installation. By adhering to best practices, performing thorough calculations, and following safety precautions, electricians and technicians can harness the benefits of these high-capacity heating systems while mitigating potential risks. Regular maintenance and proper documentation are essential for ensuring the long-term performance and reliability of the system.

FAQs

1. What size circuit breaker is needed for a 15 kW heat strip at 240V? A 70-amp breaker is generally recommended to account for inrush current and provide

adequate overload protection.

1. What gauge wire should I use for a 15 kW heat strip? The appropriate wire gauge will depend on the specific amperage and length of the wire run. Consult the NEC and perform voltage drop calculations to determine the necessary size. #4/0 or larger is likely required.
1. Can I use a 15 kW heat strip on a 208V system? It's generally not recommended. Lower voltage will cause increased amperage and potential overheating. It's best to use a heat strip specifically designed for 208V or find an alternative solution.
1. How do I troubleshoot a malfunctioning 15 kW heat strip? Start by checking the circuit breaker, then inspect the wiring for loose connections or damage. Use a multimeter to check voltage and continuity. If problems persist, contact a qualified electrician.
1. What are the safety precautions when working with a 15 kW heat strip? Always disconnect power before working on the system. Use insulated tools and gloves. Ensure proper grounding. Never work alone.
1. How often should I perform maintenance on a 15 kW heat strip? Regular inspections should be conducted, at minimum, annually. This includes checking for loose connections, damaged wiring, and overall system integrity.
1. Can I install a 15 kW heat strip myself? Unless you are a qualified electrician with experience in high-power electrical systems, it is highly recommended to hire a professional for installation.
1. What type of thermostat is suitable for a 15 kW heat strip system? A heavy-duty thermostat rated for the high amperage and switching capacity of the system is essential. Consult with a specialist to ensure appropriate selection.

1. What are the potential energy saving measures for a 15 kW heat strip system?
Implementing smart controls, zoning, and regular maintenance can significantly reduce energy consumption. Employing a programmable thermostat for temperature scheduling is also beneficial.

Related Articles

1. "Calculating Voltage Drop for High-Power Heating Elements": This article focuses on the critical calculations needed to prevent voltage drop in high-power heating systems, specifically addressing the challenges of 15 kW heat strip installations.
1. "Selecting the Right Circuit Breaker for 15 kW Heat Strips": A detailed guide on choosing the correct circuit breaker size for 15 kW heat strips, covering different breaker types, overload protection, and safety considerations.
1. "Troubleshooting Common Problems in 15 kW Heat Strip Systems": This article provides a step-by-step guide to diagnosing and fixing common issues encountered in 15 kW heat strip systems.
1. "Energy Efficiency Strategies for High-Power Electric Heating": Explores different methods to maximize the energy efficiency of high-power electric heating systems such as 15 kW heat strips.
1. "Understanding Parallel vs. Series-Parallel Wiring Configurations for Heat Strips": This article compares and contrasts the advantages and disadvantages of different wiring configurations for heat strips, explaining which configuration is best for 15 kW systems.
1. "NEC Code Requirements for High-Power Heating Element Installations": A review of the relevant National Electrical Code articles pertaining to the installation of high-power heating elements, with a focus on safety and compliance.

1. "Maintenance and Inspection Procedures for 15 kW Heat Strip Systems": A guide for regular maintenance and inspections, aiming to prevent premature failures and ensure the system's longevity.
1. "Case Study: Successful Installation of a 15 kW Heat Strip System in a Commercial Setting": A real-world example highlighting the installation process, challenges encountered, and solutions implemented in a typical commercial application.
1. "The Role of Thermostats in Optimizing 15 kW Heat Strip System Performance": A detailed examination of thermostat selection and configuration for optimal performance and energy savings in 15 kW heat strip systems.

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15 kw heat strip wiring diagram: Electrical Drives Jens Weidauer, Richard Messer, 2014-07-07 From the point of view of a user this book covers all aspects of modern electrical drives. It is aimed at both users, who wish to understand, design, use, and maintain electrical drives, as well as specialists, technicians, engineers, and students, who wish to gain a comprehensive overview of electrical drives. Jens Weidauer and Richard Messer describe the principles of electrical drives, their design, and application, through to complex automation solutions. In the process, they introduce the entire spectrum of drive solutions available and their main applications. A special aspect is the combination of multiple drives to form a drive system, as well as the integration of drives into automation solutions. In simple and clear language, and supported with many diagrams, complex relationships are described and presented in an easy-to-understand way. The authors deliberately avoid a comprehensive mathematical treatment of their subject and instead focus on a coherent description of the active principles and relationships. As a result, the reader will be in a position to understand electrical drives as a whole and to solve drive-related problems in everyday professional life.

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Additional Resources

710563-A 15 kW H6HK Heater Kit WD - Nortek HVAC

If any of the original wire supplied with this unit must be replaced, it must be replaced with wiring material of the ...

WIRING DIAGRAMS - Carrier

RELAY1HEAT STRIP--1 1 SCHEMATIC DIAGRAM NOTES: 1. Use Copper Wire (75°C Min) Only Between Disconnect ...

RXQJ-C15J - 208-240V/1PH/60HZ 15KW Heat...

RXQJ-C15J - 208-240V/1PH/60HZ 15KW Heater Kit Wiring Diagram Keywords: RXQJ-C15J, 208-240V/1PH/60HZ, ...

Electric Heat Kit - MRCOOL

Jan 19, 2022 · Once the heat kit is securely mounted, refer to the wiring diagram on the electrical box and ...

WIRING DIAGRAM H3HK015H-01C 240VAC 15 ...

WIRING DIAGRAM H3HK015H-01C 15 kW, 2-Circuit, HP, 1-Phase Electric Heater Kit H3HK015H-21C 240VAC ...

4HK SERIES ELECTRIC HEAT KIT ACCESSORY - Neuco

ELECTRIC HEAT KIT ACCESSORY (STYLE A) HVAC SERVICE PARTS Supersedes: 035-21135-001 Rev ... 8 Wiring ...

WIRING DIAGRAMS - Carrier

HEAT STRIP-3 RELAY 3 RELAY 2 BLK HEAT STRIP-2 RELAY 2 RELAY 1 BLK HEAT STRIP-1 SCHEMATIC DIAGRAM ...

Installation Instructions Electric Heater KFCEH Pack...

Refer to unit instructions for recommended wiring procedures. Install wiring in accordance with all ...

Installation Instructions - Carrier

Wiring diagram sticker 1 Installation / Operations Manual 1 40VM9100XX ... 40VM910005 5kW Heat Strip 012,018, 024, 030, 036, 048, 054 ... Heat Kit (kW) Minimum Circuit Amp Ampacity ...

HKR / HKA / HKP © 2003-2007, 2009, 2012 Goodman ...

1. Apply the provided wiring diagram for package unit models adjacent to the wiring diagram supplied on the inside of the unit control box cover. 16. When proper operation is ensured, ...

HKR / HKA / HKP /HKS - AC Direct

The Goodman® brand HKR electric heat kits are for use with Amana brand air handlers and modular ... • Plug-in wiring harness for ease of installation into air handler • Rust-resistant ...

ELECTRIC UNIT HEATER INSTALLATION UH SERIES - TPI Corp

12.5 & 15 KW 22 21 1/4 15 8 3/8 4 3/4 10 1 5/8 7 1/2 12 MODEL DESIGNATION SYSTEM EXAMPLE: H 1 H UH 15 C A 1 000 Volts Mfg. Code Phase Control Volts Motor Voltage ...

Installation Instructions - Carrier

this Heater Kit will convert the heat pump into a two point power connection. The Heater Kit is available in several kW capacities. Unit tonnage vs Heater Kit capacity compatibility table is ...

AWUF/AWUT Series - Goodman MFG

Wiring Diagram 11 AWUF/AWUT Series. 2 www.amana-hac.com SS-AAWUF

Nomenclature A W U F 18 05 1 6 ** ... Electric Heat (kW) 3 5 8 3 5 8 3 5 8 10 Blower

Diameter 9 9 9 10 10 ...

Important - AC Pro

4 distribution panel and sized as shown in Table 3 (page 6) or the unit data label, and in accordance with the NEC and all applicable local codes.

WIRING DIAGRAMS - Carrier

heat strip-1 schematic diagram l2 notes: 1. use copper wire (75°c min) only between disconnect switch and unit. ... 1Ø schematic diagram field power wiring see rating plate for volts & hertz ...

INSTALLATION INSTRUCTIONS - Lennox

Low voltage control wiring are terminal strip or pigtail leads ... Typical Wiring Connections. W1, W2 CAN BE USED TO STAGE ELECTRIC HEAT ACCESSORY ON 10, 15 & 20 kW ...

WIRING DIAGRAMS

HEAT STRIP-3 RELAY 3 RELAY 2 BLK HEAT STRIP-2 RELAY 2 RELAY 1 BLK HEAT STRIP-1 SCHEMATIC DIAGRAM L2 NOTES: 1. Use Copper Wire (75°c Min) Only Between Disconnect ...

Installation Instructions - Neuco

(24- AND 30-KW) FUSE COVER CLIP LATCH (OMITTED ON 18-KW) A90154 Fig. 1 -- Installation of 18--, 24--, and 30--kW Model Heaters Procedure 2 — Attach Fuse Box or Circuit ...

PACKAGE HEAT PUMPS - Gemaire

Single point wiring makes installation even easier. 11. All units feature an internal trap on the condensate line eliminating the need for installing an on-site external trap. ... 015 = 15 KW ...

INSTALLATION INSTRUCTIONS ELECTRIC HEAT PACKAGES

1. Electric heat control base and wiring. 3. Installation instructions. 4. Wiring diagram (2), one to be applied to unit. 5. Adhesive label to remark serial plate to indicate new model number. This ...

H3HK Series Installation Instructions - Coburn's

Staged Heat — To stage the heat on the 15 kw or 20 kw Heater Kits the factory set wiring will need to be modified. The orange wire in Pin 2 on ... refer to the wiring diagram on the blower ...

INSTALLATION INSTRUCTIONS FOR SELF-CONTAINED ...

HEAT PUMP UNITS GPHI 5 "M" SERIES _RECOGNIZE THIS SYMBOL AS A SAFETY PRECAUTION. ... GPHI 5(48-60)M41A WIRING DIAGRAM 15 2. WARNING ...

AG Series Electric Heaters - ClimateMaster

Refer to wiring diagram 96B0143N01. 2. Ensure unit airflow setting is above minimum airflow rating ... engaging emergency heat mode stage 1 (W1) and then another 15-20 seconds to ...

Installation Operation and Maintenance Manual - Greenheck ...

temperature of the air (as it enters the Duct Heater) to the kW rating on the chart of rated velocity. Note: Minimum airflow must be maintained at any point over the face of the heater. The ...

EHK ELECTRIC HEAT KITS - cdn.daikincloud.io

Remove heat access door. 5. Locate heater box. Remove screws holding the heater box cover in place (Figure 1). CONTROL BOX DOOR HEAT ACCESS DOOR HEAT BOX COVER ...

Bosch BVA Series Air Handler - iwae.com

9 Filter installation dimensions 15 10 Wiring diagram 16 11 Spare parts 19. 4 | Bosch IDS BVA Installation Instructions Data subject to change 12.2016 | Bosch Thermotechnology Corp. 1 ...

Product Data - Carrier

F = Fan Coil 00 = No Heat 05 = 5 kW Type / Tier 08 = 8 kW J = Comfort™ 10 = 10 kW 11 = 11 kW Refrigerant Type 15 = 15 kW 4 = Puron® Major Series D Coil Type Electrical L = ...

HKS ELECTRIC HEAT KIT - HVACDirect.com

1. FOR 25kW AND THREE PHASE HEAT KIT APPLICATIONS: Install the wiring diagram provided with the heat kit in a prominently visible location on the exterior of the unit. 6. FOR ...

2HK SERIES ELECTRIC HEAT KIT ACCESSORY - Hamilton...

ELECTRIC HEAT KIT ACCESSORY HVAC SERVICE PARTS Appends:535.02-RP7V (996) 035-17746-001 Rev. A (0602) 1 of 2 Heat Kit Service Parts - Single Phase: ITEM DESCRIPTION ...

709162-A Package Electric Heat Kit II - HVAC Parts Online

Staged Heat To stage the heat on the 15 kw or 20 kw Heater Kits the factory set wiring will need to be modified. The orange wire in Pin 2 on the Heat Accessory Plug will be re-routed. See ...

H8HK SERIES ELECTRIC HEATER KIT - Winsupplyinc.com

4 distribution panel and sized as shown in Table 3 (page 6) or the unit data label, and in accordance with the NEC and all applicable local codes.

INSTALLATION GOODMAN MANUFACTURING Co. WARREN ...

a) Dual power connections are required to operate heat kit (3-phase for heat kit, 1-phase for air handler). b) Mount 2-pole terminal block provided with heater on the right hand side of the ...

ASPT Series - Goodman MFG

Wiring Diagram..... 9 Accessories 12 Product Features ... • Internal factory-installed thermal expansion valves for cooling and heat pump applications • Direct drive, multi-speed ECM ...

Product Data - Gemaire

circuiting has also been updated to make the most of all ICP heat pumps and air conditioners. Units come with solid state fan controls, 1-inch (25mm) thick insulation with R-value of 4.2, ...

INSTALLATION INSTRUCTIONS Electric Heat Accessory

EHIA15HB10 15 kW 3-Phase w/C.B. 12, 16, 20 EHIA20HB10 20 kW 3-Phase w/C.B. 16, 20 EHIA25HB10 25 kW 3-Phase w/C.B. 16, 20 ... ELECTRIC HEAT ACCESSORY 451 01 4109 ...

REPLACEMENT PARTS MANUAL

NS 4097-141 Wiring Diagram X EHWH36-A08LB. Manual 2110-608F Page 4 of 5 AIR CONDITIONING HEATER PACKAGES. Manual 2110-608F Page 5 of 5 ... 1 8604-090 Heat ...

06-6669-00 RXBH-1724A03J Air Handler Heater Kit Wiring ...

06-6669-00 RXBH-1724A03J Air Handler Heater Kit Wiring Diagram Subject: RXBH-1724A03J Air Handler Heater Kit Wiring Diagram Keywords: RXBH-1724A03J, Air Handler, Heater Kit, ...

Electric Heater Model WEM series - Warren HVAC

1. Apply wiring diagram to the cabinet for future reference. 10. ... Set thermostat to call for heat. 6. Check operation of heater. 7. Check that air flow across heater is at or above ... 15.0 Kw ...

AIR HANDLERS INSTALLATION & OPERATING INSTRUCTIONS ...

COOLING UNIT WITH OPTIONAL HEAT KITS OF 15 kW AND ABOVE AND ROOM THERMOSTAT WITH TWO STAGES OF HEAT..... 16 HEAT PUMP UNIT WITH OPTIONAL ...

Installation Instructions For Self-Contained Package Air ...

heat kits are available in 5,8,10,15 and 20 KW. The units can be easily installed in manufactured or modular homes with existing high-static duct work. The units can also be ... all necessary ...

Product Catalog Electric Unit Heaters - Trane Heating & Air ...

volt, single or three-phase operation. Units from 3.3 to 10 kW for 208 and 240-volt operation may be converted easily from single to three-phase operation in the field. Single speed fan on 3.3 ...

INSTALLER'S GUIDE

Use the right side conduit holes for field wiring. FIGURE 1 5 1 9 2 9 9 7. 3. Remove the cover plate from the single power entry kit. ... Sample shown is for 15 kW heater. 11. After

the ...

RESI AIRHANDLERS BCE5C-48-60 WIRINGDIAGRAM

Title: RESI_AIRHANDLERS_BCE5C-48-60_WIRINGDIAGRAM Author: APR02 Created
Date: 2/8/2019 2:55:41 PM

Installation Instructions Electric Heater Packages - Carrier

For 18-, 24-, and 30-kw heaters, remove adapter plate. (See Fig. 1.) 4. Insert heater assembly into front of fan coil so that element rods engage holes in rear heat shield. 5. Attach heater ...

Safety Labeling and Signal Words - OnlineSupply.com

EHK15AKF 15 kW, single phase, with fuses ALL EHK15AKB* 15 kW, single phase, with circuit breakers ALL† EHK15AHN 15 kW, 3-phase, no internal circuit protection ALL† EHK18AHN 18 ...

Electrical Strip Heater Installation (1/4) www.hi-velocity.com ...

The ESH 5 and 10 kW units have one single 240V breaker; the 15 kW to 23 kW units come complete with two supply circuit breakers. These two circuits can be joined together using a ...

INSTALLATION & OPERATING INSTRUCTIONS for HKR

Break out appropriate knockout for electric heat kit based on KW of element (# of elements). 5. Slide the heater kit into the slot following the direction of ... 15. Apply the wiring diagram ...

DOWNFLOW SINGLE AND TWO STAGE ELECTRIC FURNACE ...

13 - Control Box Component Locations 11 28 - Wiring Diagram 15 kW w/ C.T. Blower Motor 21 14 - Control Box Cover and Circuit Breaker Location 11 29 - Wiring Diagram 20 kW w/ C.T. ...

INSTALLATION MANUAL - Winsupplyinc.com

5396713-BIM-D-0919 2 Johnson Controls Ducted Systems SECTION II: SAFETY This is a safety alert symbol. When you see this symbol on labels or in manuals, be alert to the potential for ...

Installation Instructions Smart Heat KFAEH Heat Pump Heater ...

KFAEH2201H10 10 kw, Non-Fused 018-036 KFAEH2301H15 15 kw, Fused 024-048 KFAEH2401H20 20 kw, Fused 030-070 →Table 2—Minimum Motor Low-Speed Tap Selection ...

AMST Series - Daikin Comfort

Wiring Diagram..... 9 Accessories 11 Product Features ... Ceiling Mounted Factory Installed Electric Heat KW M - Multi-Positional 00 -No Electric Heat W - Wall Mounted ... 5 4.8 kW 15 ...

INSTALLATION INSTRUCTIONS - Carrier

1. For 15 and 20 kW fused heater kits: After installing heater assembly, attach fuse box to the ... strip, and connect to field wire L3. B: Disconnect yellow wire from LS1 and connect to ... Place ...

DUAL POINT CARRIER / ICP WARREN ELECTRIC INSTALLATION

Attach the wiring diagram to the back of access panel near the unit wiring label. FIG. 2- Blower motor installed ... Packaged Heat Pump system WARNING ... 5 kW 7.5 kW 10 kW 15 kW 20 ...

UL & CSA LISTED ELECTRIC DUCT HEATERS STOCK- LINE ...

Warren Technology 2050 West 73 Street, Hialeah, Florida 33016 • Telephone (305) 556-6933 • Fax (305) 557-6157 Website: www.warrenhvac.com E-Mail: warren@warrenhvac.com

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Multi-Position, Variable-Speed, ECM-Based Air Handler with...

Wiring Diagram 8 Product Features • Electronic Expansion Valve (EEV) for cooling and heat pump applications. ... 03 3.0 kW 15 14.4 kW Cabinet Size (MAX) ... Heat Kit Data (Cont.) ...

Fan Coils Accessory Electric Heaters - Technical Hot & Cold ...

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