



Parts & Supplies Catalog



comfort | excellence
Carrier Enterprise
Caribbean Region



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FRACTIONAL HORSEPOWER MOTORS



CONDENSER FAN

| PRODUCT # | DESCRIPTION |
|---------------|----------------------------|
| TT-C16-1SP2 | COND 1SP 1075 230V 1/6HP |
| TT-C25-1SP2 | COND 1SP 1075 230V 1/4HP |
| TT-C25-1SP2HT | COND 70C 1SP 1075 230V 1/4 |
| TT-C25-1SP3HT | COND 70C 1SP 825 230V 1/4 |
| TT-C33-1SP2 | COND 1SP 1075 230V 1/3HP |
| TT-C33-1SP2HT | COND 70C 1SP 1075 230V 1/3 |
| TT-C33-1SP3HT | COND 70C 1SP 825 230V 1/3 |
| TT-C33-MSP2 | COND 1/3HP MULTI MOTOR |
| TT-C33-MSP3 | COND 1/3HP RESCUE 825RPM |
| TT-C50-1SP2 | COND 1SP 1075 230V 1/2HP |
| TT-C50-1SP2HT | COND 70C 1SP 1075 230V 1/2 |
| TT-C50-MSP2 | COND 1/2HP MULTI MOTOR |
| TT-C75-1SP2 | COND 1SP 1075 230V 3/4HP |



EVAPORATOR

| PRODUCT # | DESCRIPTION |
|-------------|-----------------------------|
| TT-E25-3SP1 | EVAP 3SP 1075 115V 1/4HP |
| TT-E25-3SP2 | EVAP 3SP 1075 230V 1/4HP |
| TT-E33-3SP1 | EVAP 3SP 1075 115V 1/3HP |
| TT-E33-3SP2 | EVAP 3SP 1075 230V 1/3HP |
| TT-E50-3SP1 | EVAP 3SP 1075 115V 1/2HP |
| TT-E50-3SP2 | EVAP 3SP 1075 230V 1/2HP |
| TT-E50-MSP1 | EVAP 1/2HP MULTI MOTOR 115V |
| TT-E50-MSP2 | EVAP 1/2HP MULTI MOTOR |
| TT-E75-3SP1 | EVAP 3SP 1075 115V 3/4HP |
| TT-E75-3SP2 | EVAP 3SP 1075 230V 3/4HP |
| TT-E75-MSP1 | EVAP 3/4HP MULTI MOTOR |
| TT-E75-MSP2 | EVAP 3/4HP MULTI MOTOR |



Features and Benefits



COLOR PACKAGING

Bright, colorful, easy to read packaging removes confusion about motors. Additionally, the distributor can easily identify the stock of motors on the shelf. The application, voltage, and horsepower of a motor are visible at a glance.



INNOVATIVE PACKAGING

A unique styrofoam cradle inside the carton supports and protects the motor shaft, and mounting bolts during shipment.



CROSS REFERENCE

For your convenience, TopTech provides a complete manufacturer cross-reference on the side of every motor carton.



CARTON HANDLE

The motor carton has been designed with an innovative handle to make the motors much easier to carry.



CAPACITOR SIZE

The appropriate size 370 VAC run capacitor is noted on every motor carton.



LARGER DIAGRAM

An extra large wiring diagram supplied on the motor carton, as well as in the installation and safety instruction sheet, is highly visible and very easy to read.



LARGE LABEL

Informative product label contains the motor model number in large type. The UPC is also printed on every motor label.



EXTENDED BOLTS

Extended mounting bolts provide for easier installation in cramped spaces. With the longer bolts, the installer is able to more easily start the threaded mounting nut.



EXTENDED WIRES

TopTech motor wires are thirty inches long. The added length makes it easier for the contractor to install the new motor.



WIRE STRIPPING

Partial stripping leaves the insulation on the motor connection wire. This protects the stranded copper wire and prevents damage to individual strands.



REVERSING PLUG

The electrical reversing plug simplifies rotation direction changes.



INSULATED DISCONNECTS

Run capacitor connections are insulated for increased safety. Flag disconnects on condenser fan motors and inline disconnects on direct drive furnace blower motors are provided.



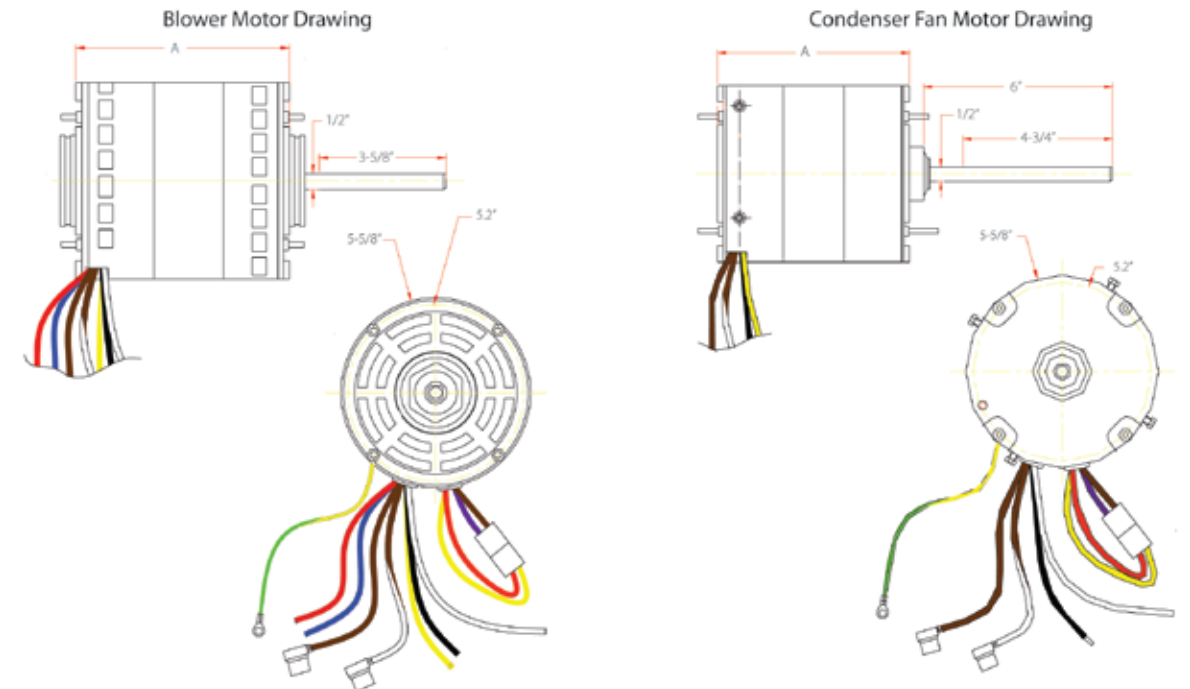
MULTIPLE HORSEPOWER

Allows the contractor and distributor to consolidate multiple part codes into a single stocking unit. Carry one motor that can replace a wide variety of OEM and other replacement motors, saving time and money.

Technical Specifications

| | Part Number | HP | Voltage | Amps | Speed | Capacitor | Bearing | Size "A" | Total weight |
|------------------------------------|-------------|-------|---------------|-------|----------|------------|---------|----------|--------------|
| Direct Drive Furnace Blower Motors | TT-E25-3SP1 | 1/4hp | 115V 60HZ | 4.60 | 1075 / 3 | 5uF/370V | SLEEVE | 4.213" | 10 |
| | TT-E25-3SP2 | 1/4hp | 208/230V 60Hz | 2.20 | 1075 / 3 | 5uF/370V | SLEEVE | 4.213" | 12 |
| | TT-E33-3SP1 | 1/3hp | 115V 60HZ | 6.70 | 1075 / 3 | 5uF/370V | SLEEVE | 4.469" | 12 |
| | TT-E33-3SP2 | 1/3hp | 208/230V 60Hz | 2.90 | 1075 / 3 | 5uF/370V | SLEEVE | 4.469" | 12 |
| | TT-E50-3SP1 | 1/2hp | 115V 60HZ | 10.20 | 1075 / 3 | 5uF/370V | SLEEVE | 5.472" | 16.28 |
| | TT-E50-3SP2 | 1/2hp | 208/230V 60Hz | 5.00 | 1075 / 3 | 5uF/370V | SLEEVE | 5.217" | 16.28 |
| | TT-E75-3SP1 | 3/4hp | 115V 60HZ | 11.30 | 1075 / 3 | 15uF/370V | SLEEVE | 5.472" | 19.36 |
| | TT-E75-3SP2 | 3/4hp | 208/230V 60Hz | 5.40 | 1075 / 3 | 10uF/370V | SLEEVE | 5.472" | 19.36 |
| | TT-E10-3SP1 | 1 HP | 115V 60HZ | 12.60 | 1075/3 | 20uF/370V | BALL | 6.122" | 22 |
| | TT-E10-3SP2 | 1 HP | 208/230V 60Hz | 5.59 | 1075/3 | 15uF/370V | BALL | 5.728" | 22 |
| Condenser Fan Motors | TT-C16-1SP2 | 1/6hp | 208/230V 60Hz | 1.30 | 1075/1 | 5uF/370V | SLEEVE | 4.25" | 9.46 |
| | TT-C25-1SP2 | 1/4hp | 208/230V 60Hz | 2.20 | 1075/1 | 5uF/370V | SLEEVE | 4.25" | 12 |
| | TT-C33-1SP2 | 1/3hp | 208/230V 60Hz | 2.80 | 1075/1 | 7.5uF/370V | SLEEVE | 4.52" | 12 |
| | TT-C50-1SP2 | 1/2hp | 208/230V 60Hz | 4.20 | 1075/1 | 10uF/370V | SLEEVE | 5.29" | 16.28 |
| | TT-C75-1SP2 | 3/4hp | 208/230V 60Hz | 4.50 | 1075/1 | 10uF/370V | SLEEVE | 5.75" | 22 |

| Multiple Horsepower | Part Number | Voltage | Speed | Capacitor | Bearing | (1) HP | (2) HP | (3) HP | (4) HP | (5) HP | Size "A" | Total weight |
|-----------------------------------|-------------|---------------|--------|----------------|---------|-----------|-----------|-----------|-----------|-----------|----------|--------------|
| | | | | | | FLA | FLA | FLA | FLA | FLA | | |
| Direct Drive Furnace Blower Motor | TT-E50-MSP2 | 208/230V 60Hz | 1075/4 | 10uF/370V | BALL | 1/2 - 7.0 | 1/3 - 6.7 | 1/4 - 4.4 | 1/5 - 3.2 | 1/6 - 2.4 | 4.862" | 17.16 |
| | TT-E50-MSP1 | 115V 60HZ | 1075/4 | 10uF/370V | BALL | 1/2 - 3.9 | 1/3 - 3.6 | 1/4 - 2.5 | 1/5 - 1.8 | 1/6 - 1.3 | 4.862" | 17.16 |
| | TT-E75-MSP1 | 115V 60HZ | 1075/4 | 10(20)uF/370V | BALL | 3/4 - 8.1 | 1/2 - 6.6 | 1/3 - 4.6 | 1/4 - 3.8 | 1/5 - 3.1 | 5.708" | 18.92 |
| | TT-E75-MSP2 | 208/230V 60Hz | 1075/4 | 10(20)uF/370V | BALL | 3/4 - 3.8 | 1/2 - 3.7 | 1/3 - 2.5 | 1/4 - 1.8 | 1/5 - 1.7 | 5.708" | 18.92 |
| Condenser Fan Motor | TT-C33-MSP2 | 208/230V 60Hz | 1075/2 | 7.5/5uF/370V | BALL | 1/3 - 2.8 | 1/4 - 2.0 | 1/5 - 1.7 | 1/6 - 1.5 | N/A | 4.53" | 13.64 |
| | TT-C33-MSP3 | 208/230V 60Hz | 825/2 | 10/7.5uF/370V | BALL | 1/2 - 3.0 | 1/3 - 2.5 | 1/4 - 2.0 | 1/5 - 1.3 | N/A | 5.32" | 15.84 |
| | TT-C50-MSP2 | 208/230V 60Hz | 1075/2 | 12.5/10uF/370V | BALL | 1/3 - 2.1 | 1/4 - 1.7 | 1/5 - 1.5 | 1/6 - 1.2 | N/A | 5.32" | 14.52 |





Why Sell TopTech Motors

TopTech motors are 100% functionally tested during manufacturing and then retested after final assembly for everything from input power to Hi-Pot and continuity testing.

TopTech motors require compliance verification of incoming raw materials for dimensional, mechanical, and specifications identified in the drawing and quality procedure.

TopTech furnace blower motors are rated for higher ambient temperature so they can be used in more applications and in more regions.

| Application | HP | Voltage | Speed | 370V Capacitor | TopTech | Mars | Packard | Gemline | Marathon | AO Smith | Fasco | Emerson | Smart |
|-----------------------------------|------------|---------|--------|----------------|-------------|-------|---------|---------|----------|----------|-------|---------|--------|
| Condenser Fan Motor | 3/4 | 208-230 | 1075/1 | 10 | TT-C75-1SP2 | 03731 | | | | FSE1076S | D929 | 1868 | SE3731 |
| | 1/2 | 208-230 | 1075/1 | 10 | TT-C50-1SP2 | 03730 | 63130 | EM3730 | X221 | FSE1056S | D907 | 1862 | SE3730 |
| | 1/3 | 208-230 | 1075/1 | 7.5 | TT-C33-1SP2 | 03729 | 63129 | EM3729 | X214 | FSE1036S | D908 | 1861 | SE3729 |
| | 1/4 | 208-230 | 1075/1 | 5 | TT-C25-1SP2 | 03728 | 63128 | EM3728 | X213 | FSE1026S | D909 | 1860 | SE3728 |
| | 1/6 | 208-230 | 1075/1 | 5 | TT-C16-1SP2 | 03727 | | | X411 | FSE1016S | D905 | 1859 | SE3727 |
| | 1/6 to 1/3 | 208-230 | 1075/2 | | TT-C33-MSP2 | | | | | FE6000 | D2827 | 5462 | SE3465 |
| | 1/5 to 1/2 | 208-230 | 1075/2 | | TT-C50-MSP2 | | | | | FE6002 | | 5465 | SE3468 |
| | 1/6 to 1/3 | 208-230 | 825/2 | | TT-C33-MSP3 | | | | | FE6001 | D2826 | 5464 | SE3469 |
| Direct Drive Furnace Blower Motor | 1 | 115 | 1075/3 | 20 | TT-E10-3SP1 | 03595 | | | | BDL1106 | | 8906 | |
| | 1 | 208-230 | 1075/3 | 15 | TT-E10-3SP2 | 03596 | | | X023 | BD1106 | | 8907 | |
| | 3/4 | 115 | 1075/3 | 15 | TT-E75-3SP1 | 03589 | | EM3589 | X009 | DL1076 | D728 | 8904 | SE3589 |
| | 3/4 | 208-230 | 1075/3 | 10 | TT-E75-3SP2 | 03590 | 63990 | EM3590 | X010 | D1076 | D729 | 8905 | SE3590 |
| | 1/2 | 115 | 1075/3 | 5 | TT-E50-3SP1 | 03587 | 63987 | EM3587 | X004 | FDL1056 | D701 | 1865 | SE3587 |
| | 1/2 | 208-230 | 1075/3 | 5 | TT-E50-3SP2 | 03588 | 63988 | EM3588 | X005 | FD1056 | D703 | 1973 | SE3588 |
| | 1/3 | 115 | 1075/3 | 5 | TT-E33-3SP1 | 03585 | | EM3585 | X002 | FDL1036 | D727 | 1864 | SE3585 |
| | 1/3 | 208-230 | 1075/3 | 5 | TT-E33-3SP2 | 03586 | 63986 | EM3586 | X003 | FD1036 | D923 | 1972 | SE3586 |
| | 1/4 | 115 | 1075/3 | 5 | TT-E25-3SP1 | 03583 | 63983 | EM3583 | | FDL1026 | D721 | 1863 | SE3583 |
| | 1/4 | 208-230 | 1075/3 | 5 | TT-E25-3SP2 | 03584 | 63984 | EM3584 | X001 | D1026 | D725 | 1971 | SE3584 |
| | 1/6 to 1/2 | 115 | 1075/4 | | TT-E50-MSP1 | | | | | FDL6001 | D2835 | 5460 | SE3463 |
| | 1/6 to 1/2 | 208-230 | 1075/4 | | TT-E50-MSP2 | | | | | FDL6000 | D833 | 5461 | |
| | 1/5 to 3/4 | 115 | 1075/4 | | TT-E75-MSP1 | | | | | FDL6002 | D2832 | 5470 | SE3466 |
| | 1/5 to 3/4 | 208-230 | 1075/4 | | TT-E75-MSP2 | | | | | FD6001 | D2833 | 5471 | SE3467 |

Cross Reference Guidelines

- Horsepower must be within +/- 10% of OEM
- Replacement motor voltage must match OEM exactly
- Minimum current rating should equal OEM maximum and should not exceed + 10%
- Speed should be within +/- 10% of OEM
- Capacitor value should match value on replacement motor label

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Providing HVAC Motors
For Over 50 Years



When it comes to heating, cooling, and ventilation motors, few can match A. O. Smith's commitment to comfort. Whether it is a tough outdoor condenser fan, or an indoor blower application, our dependable product line is up to the task.

Your one QUALITY source for HVAC motor solutions

As an installer, service technician, or contractor, you need a comprehensive motor line backed by a company that will be there in the future. A. O. Smith is that company, and we've been committed to the electric motor industry since 1940.

Maybe that is why A. O. Smith is one of the leading independent suppliers of motors to the air conditioning industry.

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COPPER

| PRODUCT | DESCRIPTION |
|-------------|------------------------|
| COP1/2X20 | COPPER ACR 1/2X20 FT |
| COP1/2X50 | COPPER 1/4 ROLL |
| COP1/4X50 | COPPER ACR 11/8X20 FT |
| COP1-1/8X20 | COPPER ROLL 1-1/8X50 |
| COP1-1/8X50 | COPPER ACR 1-3/8X20 FT |
| COP1-5/8X20 | COPPER ACR 1-5/8X20 FT |
| COP2-1/8X20 | COPPER ACR 2-1/8X20 FT |
| COP2-5/8X20 | COPPER ACR 2-5/8 FT |
| COP3/16X50 | COPPER 3/16 ROLL |
| COP3/4X20 | COPPER ACR 3/4 X20 FT |
| COP3/4X50 | COPPER ROLL 3/4 X50 |
| COP3/8X20 | COPPER ACR 3/8X20 FT |
| COP3/8X50 | COPPER 5/8 ROLL |
| COP5/16X50 | COPPER 5/16 ROLL |
| COP5/8X20 | COPPER ACR 5/8X20 FT |
| COP5/8X50 | COPPER 5/8 ROLL |
| COP7/8X20 | COPPER ACR 7/8X20 FT |
| COP7/8X50 | COPPER 7/8 ROLL |



CAPACITORS

RUN ROUND

| PRODUCT # | DESCRIPTION |
|-----------------|-------------------|
| TT-CAP-3/370 | 3 MFD 370 VOLT |
| TT-CAP-3/440 | 3 MFD 440 VOLT |
| TT-CAP-4/370 | 4 MFD 370 VOLT |
| TT-CAP-4/440 | 4 MFD 440 VOLT |
| TT-CAP-5/370 | 5 MFD 370 VOLT |
| TT-CAP-5/440 | 5 MFD 440 VOLT |
| TT-CAP-7.5/370 | 7.5 MFD 370 VOLT |
| TT-CAP-7.5/440 | 7.5 MFD 440 VOLT |
| TT-CAP-10/370 | 10 MFD 370 VOLT |
| TT-CAP-10/440 | 10 MFD 440 VOLT |
| TT-CAP-12.5/370 | 12.5 MFD 370 VOLT |
| TT-CAP-12.5/440 | 12.5 MFD 440 VOLT |
| TT-CAP-15/370 | 15 MFD 370 VOLT |
| TT-CAP-15/440 | 15 MFD 440 VOLT |
| TT-CAP-20/370 | 20 MFD 370 VOLT |
| TT-CAP-20/440 | 20 MFD 440 VOLT |
| TT-CAP-25/370 | 25 MFD 370 VOLT |
| TT-CAP-25/440 | 25 MFD 440 VOLT |
| TT-CAP-30/370 | 30 MFD 370 VOLT |
| TT-CAP-30/440 | 30 MFD 440 VOLT |
| TT-CAP-35/370 | 35 MFD 370 VOLT |
| TT-CAP-35/440 | 35 MFD 440 VOLT |
| TT-CAP-40/370 | 40 MFD 370 VOLT |
| TT-CAP-40/440 | 40 MFD 440 VOLT |
| TT-CAP-45/370 | 45 MFD 370 VOLT |
| TT-CAP-45/440 | 45 MFD 440 VOLT |
| TT-CAP-50/370 | 50 MFD 370 VOLT |
| TT-CAP-50/440 | 50 MFD 440 VOLT |
| TT-CAP-55/370 | 55 MFD 370 VOLT |

RUN ROUND

| PRODUCT # | DESCRIPTION |
|----------------|-----------------------|
| TT-CAP-55/440 | 55 MFD 440 VOLT |
| TT-CAP-60/370 | 60 MFD 370 VOLT |
| TT-CAP-60/440 | 60 MFD 440 VOLT |
| TT-CAP-80/370 | 80 MFD 370 VOLT |
| TT-CAP-5/370R | 5 MFD 370 VOLT ROUND |
| TT-CAP-45/370R | 45 MFD 370 VOLT ROUND |
| TT-CAP-45/440R | 45 MFD 440 VOLT ROUND |
| TT-CAP-55/440R | 55 MFD 440 VOLT ROUND |
| TT-CAP-60/440R | 60 MFD 440 VOLT ROUND |
| TT-CAP-80/440R | 80 MFD 440 VOLT ROUND |





| DUAL | |
|-------------------|-----------------------|
| PRODUCT # | DESCRIPTION |
| TT-CAP-10/10/370 | 10 & 10 MFD 370 VOLT |
| TT-CAP-15/4/370 | 15 & 4 MFD 370 VOLT |
| TT-CAP-15/5/370 | 15 & 5 MFD 370 VOLT |
| TT-CAP-20/5/370 | 20 & 5 MFD 370 VOLT |
| TT-CAP-20/5/440 | 20 & 5 MFD 440 VOLT |
| TT-CAP-25/5/370 | 25 & 5 MFD 370 VOLT |
| TT-CAP-25/5/440 | 25 & 5 MFD 440 VOLT |
| TT-CAP-25/10/370 | 25 & 10 MFD 370 VOLT |
| TT-CAP-25/15/440 | 25 & 15 MFD 440 VOLT |
| TT-CAP-30/3/370 | 30 & 3 MFD 370 VOLT |
| TT-CAP-30/5/370 | 30 & 5 MFD 370 VOLT |
| TT-CAP-30/5/440 | 30 & 5 MFD 440 VOLT |
| TT-CAP-30/7.5/440 | 30 & 7.5 MFD 440 VOLT |
| TT-CAP-35/3/370 | 35 & 3 MFD 370 VOLT |
| TT-CAP-35/3/440 | 35 & 3 MFD 440 VOLT |
| TT-CAP-35/5/370 | 35 & 5 MFD 370 VOLT |
| TT-CAP-35/5/440 | 35 & 5 MFD 440 VOLT |
| TT-CAP-35/7.5/370 | 35 & 7.5 MFD 370 VOLT |
| TT-CAP-35/7.5/440 | 35 & 7.5 MFD 440 VOLT |
| TT-CAP-40/3/370 | 40 & 3 MFD 370 VOLT |
| TT-CAP-40/5/370 | 40 & 5 MFD 370 VOLT |
| TT-CAP-40/5/440 | 40 & 5 MFD 440 VOLT |
| TT-CAP-40/7.5/440 | 40 & 7.5 MFD 440 VOLT |
| TT-CAP-45/10/370 | 45 & 10 MFD 370 VOLT |
| TT-CAP-45/5/370 | 45 & 5 MFD 370 VOLT |
| TT-CAP-45/5/440 | 45 & 5 MFD 440 VOLT |
| TT-CAP-45/7.5/370 | 45 & 7.5 MFD 370 VOLT |
| TT-CAP-45/7.5/440 | 45 & 7.5 MFD 440 VOLT |
| TT-CAP-50/5/370 | 50 & 5 MFD 370 VOLT |
| TT-CAP-50/5/440 | 50 & 5 MFD 440 VOLT |
| TT-CAP-50/7.5/440 | 50 & 7.5 MFD 440 VOLT |

| DUAL | |
|-------------------|-----------------------|
| PRODUCT # | DESCRIPTION |
| TT-CAP-55/5/370 | 55 & 5 MFD 370 VOLT |
| TT-CAP-55/5/440 | 55 & 5 MFD 440 VOLT |
| TT-CAP-55/7.5/370 | 55 & 7.5 MFD 370 VOLT |
| TT-CAP-60/10/440 | 60 & 10 MFD 440 VOLT |
| TT-CAP-60/5/370 | 60 & 5 MFD 370 VOLT |
| TT-CAP-80/5/370 | 80 & 5 MFD 370 VOLT |
| TT-CAP-80/5/440 | 80 & 5 MFD 440 VOLT |



| DUAL ROUND | |
|--------------------|-----------------------------|
| PRODUCT # | DESCRIPTION |
| TT-CAP-15/5/440R | 15 & 5 MFD 440 VOLT ROUND |
| TT-CAP-20/5/370R | 20 & 5 MFD 370 VOLT ROUND |
| TT-CAP-20/5/440R | 20 & 5 MFD 440 VOLT ROUND |
| TT-CAP-25/3/370R | 25 & 3 MFD 370 VOLT ROUND |
| TT-CAP-25/5/370R | 25 & 5 MFD 370 VOLT ROUND |
| TT-CAP-25/5/440R | 25 & 5 MFD 440 VOLT ROUND |
| TT-CAP-25/7.5/370R | 25 & 7.5 MFD 370 VOLT ROUND |
| TT-CAP-25/7.5/440R | 25 & 7.5 MFD 440 VOLT ROUND |
| TT-CAP-30/3/370R | 30 & 3 MFD 370 VOLT ROUND |
| TT-CAP-30/5/370R | 30 & 5 MFD 370 VOLT ROUND |
| TT-CAP-30/5/440R | 30 & 5 MFD 440 VOLT ROUND |
| TT-CAP-30/7.5/370R | 30 & 7.5 MFD 370 VOLT ROUND |
| TT-CAP-35/3/370R | 35 & 3 MFD 370 VOLT ROUND |
| TT-CAP-35/3/440R | 35 & 3 MFD 440 VOLT ROUND |
| TT-CAP-35/5/370R | 35 & 5 MFD 370 VOLT ROUND |
| TT-CAP-35/5/440R | 35 & 5 MFD 440 VOLT ROUND |
| TT-CAP-35/7.5/370R | 35 & 7.5 MFD 370 VOLT ROUND |
| TT-CAP-35/7.5/440R | 35 & 7.5 MFD 440 VOLT ROUND |
| TT-CAP-40/3/370R | 40 & 3 MFD 370 VOLT ROUND |
| TT-CAP-40/3/440R | 40 & 3 MFD 440 VOLT ROUND |
| TT-CAP-40/5/370R | 40 & 5 MFD 370 VOLT ROUND |
| TT-CAP-40/5/440R | 40 & 5 MFD 440 VOLT ROUND |
| TT-CAP-40/7.5/370R | 40 & 7.5 MFD 370 VOLT ROUND |
| TT-CAP-40/7.5/440R | 40 & 7.5 MFD 440 VOLT ROUND |
| TT-CAP-45/5/370R | 45 & 5 MFD 370 VOLT ROUND |
| TT-CAP-45/5/440R | 45 & 5 MFD 440 VOLT ROUND |
| TT-CAP-45/7.5/370R | 45 & 7.5 MFD 370 VOLT ROUND |
| TT-CAP-45/7.5/440R | 45 & 7.5 MFD 440 VOLT ROUND |
| TT-CAP-45/10/370R | 45 & 10 MFD 370 VOLT ROUND |
| TT-CAP-50/5/370R | 50 & 5 MFD 370 VOLT ROUND |
| TT-CAP-50/5/440R | 50 & 5 MFD 440 VOLT ROUND |

| DUAL ROUND | |
|--------------------|-----------------------------|
| PRODUCT # | DESCRIPTION |
| TT-CAP-50/7.5/370R | 50 & 7.5 MFD 370 VOLT ROUND |
| TT-CAP-55/4/440R | 55 & 4 MFD 440 VOLT ROUND |
| TT-CAP-55/5/370R | 55 & 5 MFD 370 VOLT ROUND |
| TT-CAP-55/5/440R | 55 & 5 MFD 440 VOLT ROUND |
| TT-CAP-55/7.5/370R | 55 & 7.5 MFD 370 VOLT ROUND |
| TT-CAP-55/7.5/440R | 55 & 7.5 MFD 440 VOLT ROUND |
| TT-CAP-55/10/370R | 55 & 10 MFD 370 VOLT ROUND |
| TT-CAP-60/5/370R | 60 & 5 MFD 370 VOLT ROUND |
| TT-CAP-60/5/440R | 60 & 5 MFD 440 VOLT ROUND |
| TT-CAP-60/7.5/370R | 60 & 7.5 MFD 370 VOLT ROUND |
| TT-CAP-60/7.5/440R | 60 & 7.5 MFD 440 VOLT ROUND |
| TT-CAP-60/10/440R | 60 & 10 MFD 440 VOLT ROUND |
| TT-CAP-80/5/370R | 80 & 5 MFD 370 VOLT ROUND |
| TT-CAP-80/5/440R | 80 & 5 MFD 440 VOLT ROUND |
| TT-CAP-80/7.5/370R | 80 & 7.5 MFD 370 VOLT ROUND |
| TT-CAP-80/10/370R | 80 & 10 MFD 370 VOLT ROUND |

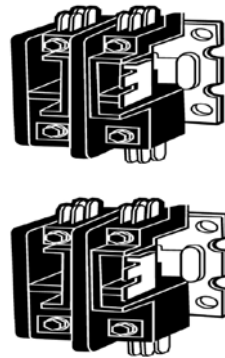




CONTACTORS

24 VAC

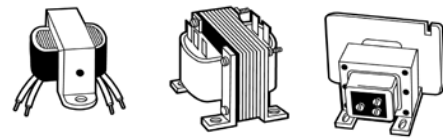
| PRODUCT # | DESCRIPTION |
|----------------|-------------------|
| TT-CON-1/24/30 | 1POLE 24VAC 30AMP |
| TT-CON-1/24/40 | 1POLE 24VAC 40AMP |
| TT-CON-2/24/30 | 2POLE 24VAC 30AMP |
| TT-CON-2/24/40 | 2POL 24VAC 40AMP |
| TT-CON-3/24/30 | 3POLE 24VAC 30 |
| TT-CON-3/24/40 | 3POLE 24VAC 40AMP |



TRANSFORMERS

24 VAC

| PRODUCT # | DESCRIPTION |
|-------------------------|------------------|
| TT-TRANS-115/208/240-40 | 115/208/240 40VA |



DISCONNECT & WHIPS

DISCONNECTS

| PRODUCT # | DESCRIPTION |
|-------------|-------------------------------------|
| TT-30AMP-F | 30 AMP DISCONNECT FUSED |
| TT-60AMP-F | TOPTECH 60 AMP DISCONNECT FUSED |
| TT-60AMP-NF | TOPTECH 60 AMP DISCONNECT NON-FUSED |



WHIPS

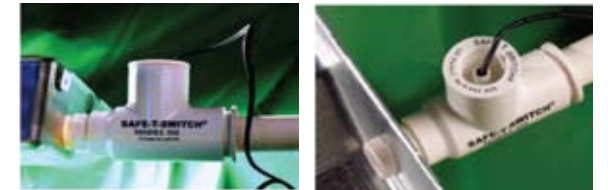
| PRODUCT # | DESCRIPTION |
|-----------------|---------------------------------|
| TT-WHIP-1/2X6NM | TOPTECH WHIP NON-METALLIC 1/2X6 |
| TT-WHIP-3/4X6NM | TOPTECH WHIP NON-METALLIC 3/4X6 |



OTHERS

SAFETY

| PRODUCT # | DESCRIPTION |
|-----------|---------------------|
| TT-SS1 | 3/4" SAFE T SWITCH |
| TT-SS2 | AUX PAN SWITCH |
| TT-SS3 | CLIPON DRAIN SWITCH |



FAN RELAYS

| PRODUCT # | DESCRIPTION |
|-----------|---------------------------------|
| TT-90290 | SINGLE POLE NORMALLY OPEN |
| TT-90293 | SINGLE POLE DOUBLE THROW |
| TT-90340 | DP / DOUBLE THROW SEMI-ENCLOSED |
| TT-90370 | SINGLE POLE DOUBLE THROW |
| TT-90380 | 1 N.O. / 1 N.C. 24V COIL |



KICKSTARTS

| PRODUCT # | DESCRIPTION |
|-----------|-----------------------|
| TT-KS1 | 3.5 / 5HP 208/230 1PH |
| TT-KS8 | 1 - 3HP 208 / 230 1PH |
| TT-TO5 | 1 - 3HP 208 / 230 1PH |

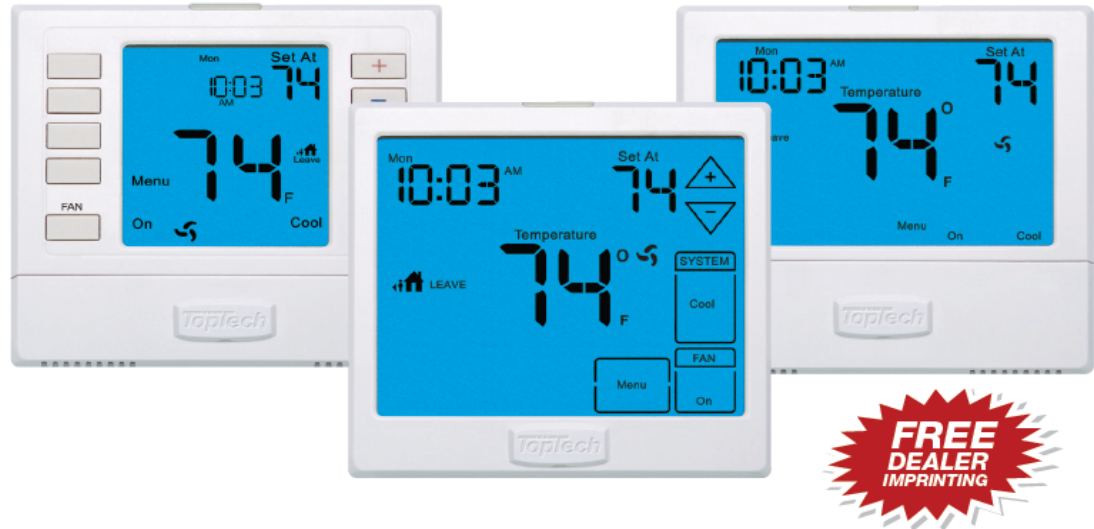


HARD KICKSTARTS

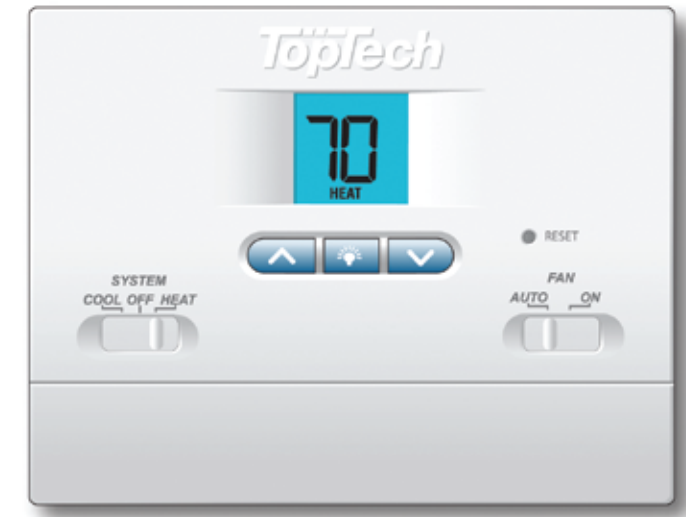
| PRODUCT # | DESCRIPTION |
|-----------|-------------|
| TT-5 | 1/3 - 2 HP |
| TT-6 | 1/2 - 3 HP |



Exclusively for HVAC Professionals!



TT-N-411
Single Stage Heat / Cool
Non-Programmable



| TopTech Model # | 7D 7 Day Programmable | 5/1/1 5/1/1 Programmable | NP Non-programmable | Stages of Heat | Stages of Cool | Gas, Electric or Oil | Heat Pump | Millivolt | Battery Power | 24V Power (Hardwired) | Dual Fuel Compatible | Display Size (Square Inches) | Auto Changeover | Filter Change Reminder | Room Temperature Calibration | Minimum Temperature | Maximum Temperature | Compressor Compressor | Compressor Short Cycle Delay | Adjustable Heating Temperature Swing | Adjustable Cooling Temperature Swing | Programmable Fan | Keypad Lockout | Adjustable Setpoint Limits | Overheating & Remote Sensor Capable | Humidity Control (Programmable) | Memory Type | Touchscreen | Warranty (Years) | Terminals (Shielded cable not required) |
|--------------------|-----------------------|--------------------------|---------------------|----------------|----------------|----------------------|-----------|-----------|---------------|-----------------------|----------------------|------------------------------|-----------------|------------------------|------------------------------|---------------------|---------------------|-----------------------|------------------------------|--------------------------------------|--------------------------------------|------------------|----------------|----------------------------|-------------------------------------|---------------------------------|-------------|-------------|--|--|
| TOUCHSCREEN | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TT-S-955WH** | 7D | 5/1/1 | NP | 3* | 2 | . | . | . | . | . | . | 13 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | 5 | Rh, Rc, C, Y, Y2, W/E, W2, G, B, O, H, D |
| TT-S-955W** | 7D | 5/1/1 | NP | 3* | 2 | . | . | . | . | . | . | 13 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | 5 | Rh, Rc, C, Y, Y2, W/E, W2, G, B, O | |
| Wired | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TT-S-955 | 7D | 5/1/1 | NP | 3* | 2 | . | . | . | . | . | . | 13 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | 5 | Rh, Rc, C, Y, Y2, W/E, W2, G, B, O | |
| TT-S-925 | 7D | 5/1/1 | NP | 3 | 2 | . | . | . | . | . | . | 13 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | 5 | R, C, Y, Y2, W2, E, G, B, O, L | |
| TT-S-915 | 7D | 5/1/1 | NP | 2 | 2 | . | . | . | . | . | . | 13 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | 5 | R, C, Y, Y2, W, W2, G, B, O | |
| LARGER | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TT-S-855 | 7D | 5/1/1 | NP | 3* | 2 | . | . | . | . | . | . | 8 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | 5 | Rh, Rc, C, Y, Y2, W/E, W2, G, B, O | |
| TT-N-851 | | NP | | 3* | 2 | . | . | . | . | . | . | 8 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | 5 | Rh, Rc, C, Y, Y2, W/E, W2, G, B, O | |
| TT-N-801 | | NP | | 1 | 1 | . | . | . | . | . | . | 8 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | 5 | Rh, Rc, C, Y, W, G, B, O | |
| LARGE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TT-S-755 | | 5/1/1 | NP | 3* | 2 | . | . | . | . | . | . | 6 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | 5 | Rh, Rc, C, Y, Y2, W/E, W2, G, B, O | |
| TT-N-751H | | NP | | 3* | 2 | . | . | . | . | . | . | 6 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | 5 | Rh, Rc, C, Y, Y2, W/E, W2, G, B, O, H, D | |
| TT-N-751 | | NP | | 3* | 2 | . | . | . | . | . | . | 6 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | 5 | Rh, Rc, C, Y, Y2, W/E, W2, G, B, O | |
| TT-N-721 | | NP | | 2 | 1 | . | . | . | . | . | . | 4 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | 5 | R, C, Y, W2, E, G, B, O | |
| TT-P-705 | | 5/1/1 | | 1 | 1 | . | . | . | . | . | . | 4 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | 5 | Rh, Rc, C, Y, W, G, B, O | |
| TT-N-701 | | NP | | 1 | 1 | . | . | . | . | . | . | 4 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | 5 | Rh, Rc, C, Y, W, G, B, O | |

Features

- Dual Powered – Hardwired or Battery
- Large Display with Bright Blue Backlight
- Adjustable Temperature Set Point Limits
- Non-Volatile Memory Retains User Settings
- Easy Access Front Battery Door
- Separate O & B Terminals
- Compressor Short Cycle Protection
- Separate Heating and Cooling Set Point Temperatures
- ESD Guard™ Electronic Circuitry
- Front Access Reset Button
- F° / C° Switch
- Gas / Electric Fan Switch
- Mount to Horizontal Box
- Adjustable Temperature Differential

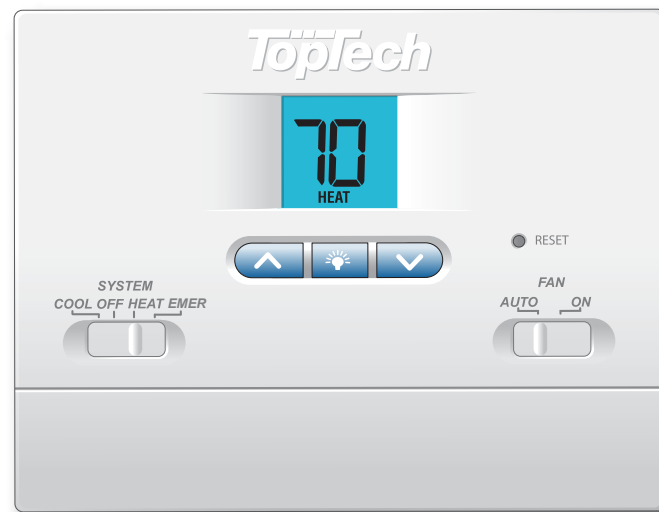
FREE Contractor Branding!
Contact your local distributor



TT-N-421

Non-Programmable

Multi-Stage 2 Heat / 1 Cool
Conventional or Heat Pump Thermostat



Features

- Dual Powered – Hardwired or Battery
- Large Display with Bright Blue Backlight
- Adjustable Temperature Set Point Limits
- Non-Volatile Memory Retains User Settings
- Easy Access Front Battery Door
- Separate O & B Terminals
- Compressor Short Cycle Protection
- Adjustable 1st and 2nd Stage Temperature Differential
- Auxiliary Heat Indicator
- ESD Guard™ Electronic Circuitry
- Front Access Reset Button
- F° / C° Switch
- Mount to Horizontal Box
- Separate Heating and Cooling Set Point Temperatures

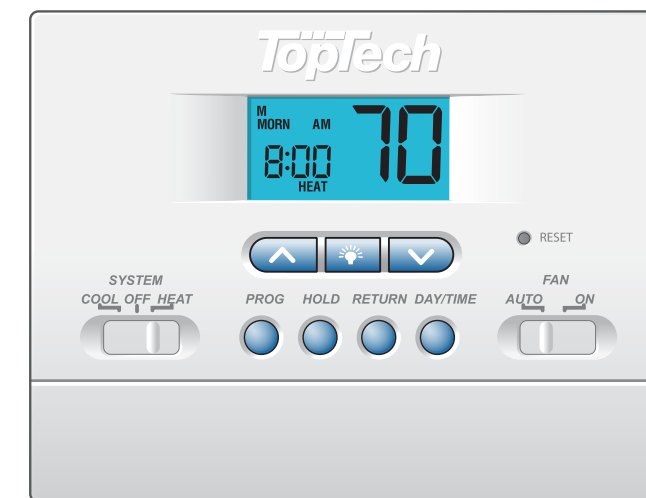
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TT-P-411

5-2 Day Programmable

Single Stage Heat / Cool



Features

- Dual Powered—Hardwired or Battery
- 5-2 Day Separate Weekday / Weekend Programming
- Large Display with Bright Blue Backlight
- Adjustable Temperature Set Point Limits
- Non-Volatile Memory Retains User Settings
- Filter Check Monitor
- Adaptive Recovery Mode (ARM™)
- Adjustable Temperature Differential
- ESD Guard™ Electronic Circuitry
- Compressor Short Cycle Protection
- Separate Heating and Cooling Set Point Program Times and Temperatures
- Temporary Program Override for 4 Hours or Until Next Set Point
- Programmable Extended Hold Mode
- Front Access Reset Button
- F° / C° Switch
- Gas / Electric Fan Switch
- Mount to Horizontal Box
- Easy Access Front Battery Door
- Separate O & B Terminals
- Meets California Title 24 Guidelines

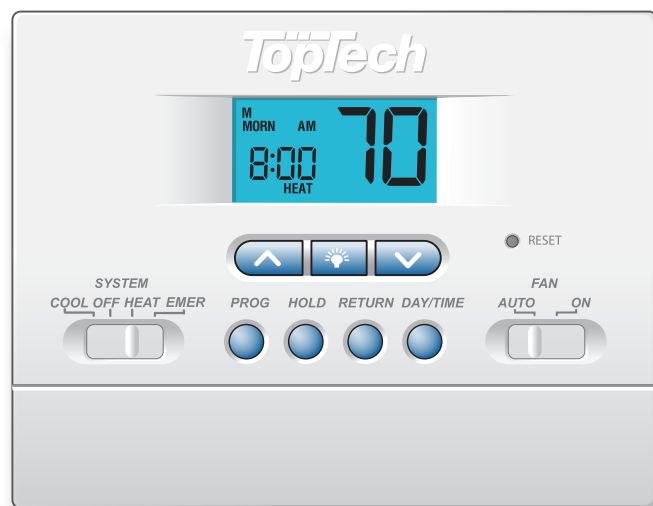
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Contact your local distributor



TT-P-421

5-2 Day Programmable

Multi-Stage 2 Heat / 1 Cool
Conventional or Heat Pump Thermostat



Features

- Dual Powered – Hardwired or Battery
- 5-2 Day Separate Weekday / Weekend Programming
- Large Display with Bright Blue Backlight
- Adjustable Temperature Set Point Limits
- Non-Volatile Memory Retains User Settings
- Filter Check Monitor
- Adaptive Recovery Mode (ARM™)
- Adjustable 1st and 2nd Stage Temperature Differential
- ESD Guard™ Electronic Circuitry
- Compressor Short Cycle Protection
- Separate Heating and Cooling Set Point Program Times and Temperatures
- Temporary Program Override for 4 Hours or Until Next Set Point
- Programmable Extended Hold Mode
- Front Access Reset Button
- F° / C° Switch
- Auxiliary Heat Status Indicator
- Mount to Horizontal Box
- Easy Access Front Battery Door
- Separate O & B Terminals
- Meets California Title 24 Guidelines

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Honeywell Thermostats

Including the latest RedLINK™
Wireless-Enabled Products



- Dramatically cut installation time with Honeywell wireless technology
- Quickly and easily relocate a thermostat without running wires
- Upgrade to Multi-Stage Equipment or add Cooling without running wires
- Display Outdoor Temperature and Humidity with a Wireless Outdoor Sensor
- Offer Temperature Control On-Demand with Personal Comfort Control

Belimo Electronic Valve Product Range

ePIV
Electronic Pressure Independent Valves
2½" to 6"

CCV
Electronic Characterized Control Valves
U.S. Patent
½" to 6"

ZONE
Electronic Zone Valves
½" to 1"

GLOBE
Electronic Globe Valve
½" to 6"

BUTTERFLY
Electronic Butterfly Valve
2" to 30"

Replacement Solutions for all Valve and Actuator Manufactures.

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For New or Retrofit Projects.

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Unparalleled innovation, engineering excellence, and the world's best build quality make Belimo the only choice.

PICCV – Belimo's Pressure Independent Characterized Control Valve is a two way valve that supplies a specific flow regardless of system pressure variations.

- Combines a flow limiting and control valve into one product
- Reduces initial installation and balancing costs
- Self-balancing, no underflow or overflow, ensuring fast start-up
- Maintains ΔT for higher efficiency

Unlike common "flow-limiting" valves, the PICCV offers much more efficient valve operation and fast, uncomplicated commissioning.



ONE GALLON

| PRODUCT # | DESCRIPTION |
|---------------|--|
| TT-8-G | TOP-KLEEN GREEN NO RISE |
| TT-8-P | TOP-PRO BLUE NON ACID; SUPER FOAMING |
| TT-8-R+ | TOP-PRO RED NON-ACID; CLEANER |
| TT-SCM-720-01 | TOP-SUPER BRITE BROWN; FOAMING CLEANER |



TopTech Coil Cleaner

comfort | excellence

| TopTech Product Name | TT-720-01 Top-Brite | TT-8-G Top-Kleen | TT-8-P Blue Power | TT-8-Y Top-Foam | TT-8-R+ Red Foaming |
|----------------------|---------------------|--------------------------|--|-----------------|---------------------|
| Nu-Calgon | 4819-08 | 4168-08 | 4291-08 | | |
| Product Name | Alka-Brite | Evap Pow'r | Nu-Brite | | |
| Virginia KMP | FM-1 | AK-1 | AKF-1 | | |
| Product Name | Foam-Max | Acti-Kleen | Alki-Foam | | |
| Ace | FNC-1 | CCL-1 | ACC-1 | HDC-1 | |
| Product Name | Foam N Clean (FMC) | Evap Kleen | Alkaline Coil Cleaner | Ace Klean HD | |
| Vapco | FM-1 | HP-1 | PL-1 | | |
| Product Name | Foaminator | HP Cleaner | Plus | | |
| Rectorseal | 82310 | 82555 | 89555 | | |
| Product Name | Aluminate | Conc. Evap. Coil Cl | Alkaline E S Cond Coil | | |
| Stewart Hall | 82636 | 82612 | 82644 | | |
| Product Name | Foam-A-Coil | Coil-Rite | Renewz | | |
| Hydrobalance | | | Black Max Conc. | | |
| Totaline | | P902-1001 | P902-0101 | | P902-0101A |
| Product Name | | Coil Cleaner Concentrate | Condenser Cleaner Non-Acid Concentrate | | Total Bright |



- Air cleaner attaches to any forced air heating or cooling system
- Incredible standard MERV 11 filtration rate
- Maintain high efficiency levels of your HVAC Equipment
- Help protect your family and home from airborne particulates, allergens, dust, and dander
- Cleans the air in your entire home every time your heating or cooling system is on
- Easy filter cartridge replacement lasts up to 12 months*

To complete and optimize your indoor air quality, consider adding the **TopTech** Whole House UV Air Treatment System.

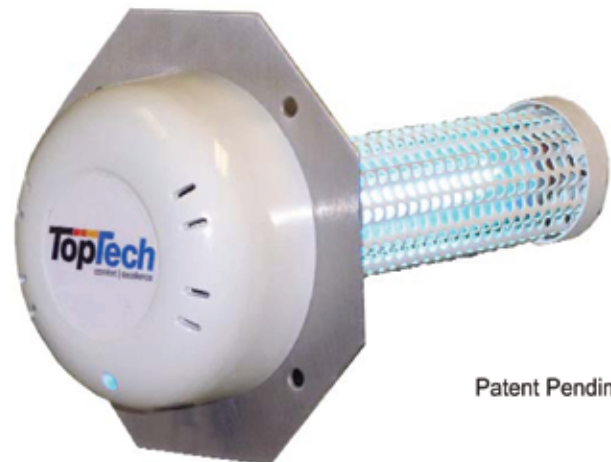


* Filter life varies based on equipment runtime and lifestyle conditions.

TopTech Air Knight

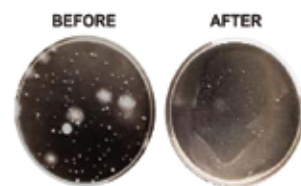
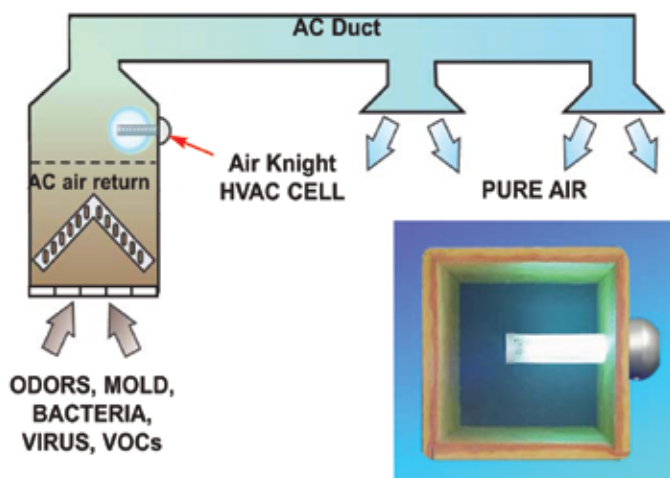
comfort | excellence

Air Purification System
A Photohydroionization™ (PHI) Technology

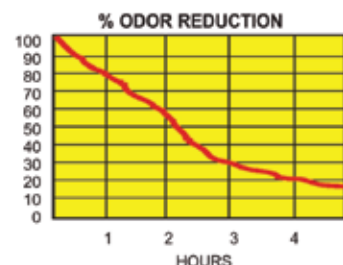


Patent Pending

The *Air Knight* is designed to eliminate sick building syndrome risks by reducing odors, air pollutants, VOCs (chemical odors), smoke, mold bacteria and viruses*. The *Air Knight* Cells are easily mounted into air conditioning and heating systems air ducts where most sick building problems start. When the HVAC system is in operation the *Air Knight* Cell creates an Advanced Oxidation Process consisting of: Hydro-peroxides, super oxide ions and hydroxide ions. All are friendly oxidizers. By friendly oxidizers we mean oxidizers that revert back to oxygen and hydrogen after the oxidation of the pollutant.



Actual lab tests showing up to 97% reductions of airborne bacteria and mold



The combination of UV light enhanced by a hydrated quad-metallic compound target develops an advanced oxidation plasma. This process also produces hydro-peroxides, super oxide ions and hydroxides. By engineering the proper UV light wavelength, in combination with a triple function, no maintenance unit, The PHI Cell provides safe hydro-peroxides, super oxide ions and hydroxides to purify the air.

With the Air Knight-PHI Cell Advanced Oxidation System, micro-organisms can be reduced up to 99.99%. Gases, VOCs and odors can also be reduced significantly, and the room will have hydro-peroxides, super oxide ion and hydroxides which will help give your room fresh, clean and odor free air.

| Item # | HVAC Air Blower Size | Dimensions | Ship Wt. | Replacement Cell |
|----------|----------------------|----------------------------|----------|------------------|
| TT-AK249 | 1,000 to 6,500 CFM | 9" probe / 5.5 Dia." plate | 3 lbs. | PHIC9-TT |



TopTech

comfort | excellence

MECHANICAL AIR CLEANER

| PRODUCT # | DESCRIPTION |
|-------------|---------------------------|
| TT-MAC-1625 | 16X25 FURNACE MERV 11 |
| TT-MAC-1722 | 17X22 AIR HANDLER MERV 11 |
| TT-MAC-2020 | 20X20 FURNACE MERV 11 |
| TT-MAC-2025 | 20X25 FURNACE MERV 11 |
| TT-MAC-2122 | 21X22 AIR HANDLER MERV 11 |
| TT-MAC-2522 | 25X22 AIR HANDLER MERV 11 |



UV LIGHTS

| PRODUCT # | DESCRIPTION |
|------------|---------------------------------------|
| TT-UV24-14 | 24 VOLT UV LIGHT - WITH FILTER SHIELD |



DUCT AIR PURIFIER

| PRODUCT # | DESCRIPTION |
|-----------|---------------|
| TT-AK249 | 24V 9" LENGTH |



Air Knight

24 Volt Operation

Dramatically Reduces

- Odors
- Mold
- Bacteria
- Viruses
- Smoke
- VOCs

In Duct HVAC Air Purification System by RGF

Proudly Made In The USA


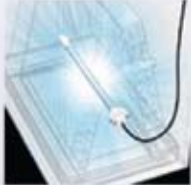
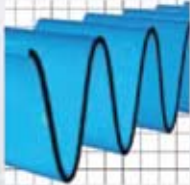


WHOLE HOUSE AIR TREATMENT



Why UV Treatment

- Fragile immune systems (Children/Seniors)
- Allergies
- Respiratory complications
- High humidity regions
- Energy efficiency of HVAC equipment
- Fights mold and bacteria growth
- Affordable
- Designed for any residential system



| | | | | |
|---|---|--|---|--|
|  |  |  |  |  |
| Effective. UV-C light neutralizes the microbe by penetrating its cell walls and severing the bonds of its DNA. | Works 24/7. Operates continually all year round disinfecting cooling coils, drain pans, and air duct surfaces. | Science. Optimized to produce light at a wavelength of 254 nanometers. Proven to be most effective for microbial control. | Antibacterial. Independently laboratory tested and proven to reduce airborne and surface bacteria. | Low Maintenance. The only maintenance required is the annual replacement of the bulb. |

TopTech recommends adding high efficiency filtration to your system to optimize and enhance your indoor air quality. Consider our TechPure air cleaners.



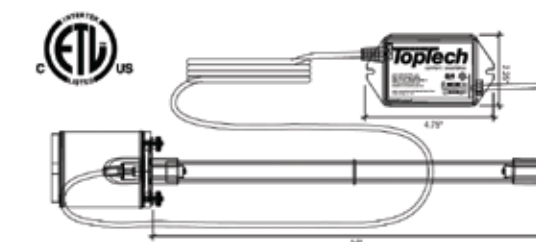
Ask about MERV 11 TechPure air cleaners.



- 2-wire 24V electronic power supply
- Extended range ballast (19V - 34V)
- 3000V surge protection
- 14" lamp length
- Protective filter shield included
- Water-resistant connections
- Extra long lamp cord (6 ft)
- Patented flange for delta plate installations
- Suitable for up to 5 ton (2000CFM) systems
- Average bulb life 9000 hours (Peak performance)



| | | | | | |
|---|---|--|---|--|--|
|  |  |  |  |  |  |
| FILTER SHIELD INCLUDED Filter shield deflects UV light away from UV-sensitive filter material and focuses UV light where its needed most. | HD ELECTRICAL RANGE Energy efficient, low voltage, electronic ballast operates on only 24 volts and is moisture sealed for HVAC applications. | MOISTURE RESISTANCE Protective, clear lamp boot makes lamp replacement easy while providing protection against moisture. | SCREWLESS INSTALL Custom magnetic bracket uses a powerful magnet to securely hold the bracket to the surface. No drilling required. | VARIETY OF INSTALLATION METHODS Custom lamp flange allows lamp to be installed directly in A-coil delta plate for optimal UV exposure. | VARIETY OF INSTALLATION METHODS Custom bracket, using magnet or screws, allows unlimited placement of lamp near cooling coil or surface. |



Specifications:
Dimensions: 24V: 4.75"L x 2.25"W x 2"H. Bracket: 3.5"L x 2.25"W x 3.5"H.
Power: 24V, 50/60Hz.
Amps: 14" Lamp - 1.1A.
Weight: Less than 2 lbs.
Lamp Life: 9000 hours continuous operation.
Warranty: 5-yr limited, 1-year bulb.
 Specifications subject to change without notice.

U.S. Patent Nos. 5,334,347, 5,817,276, 6,245,293, 6,267,924, 6,280,686, 6,313,470, 6,627,000, 6,539,727, 6,932,494, 6,550,257.



Ask about MERV 11 TechPure air cleaners.



REFRIGERANT RECOVERY UNIT

| PRODUCT # | DESCRIPTION |
|-----------|---------------------|
| TT-MM1 | MIN-MAX RECVRY UNIT |

- Compact Size Maximum Performance
- Proprietary "Oil-less" Compressor
- Capable Of Handling Liquid Or Vapor
- Recovers All Commonly Used CFC, HFC, HCFC Refrigerants Including R410A
- Ergonomic
- Field Serviceable Compressor
- Self Purge Feature
- Includes Filter Drier
- 550 PSI Safety Cut Off Switch
- 28 Lbs
- 11" H X 9" W X 16" D

REFRIGERANT SCALE

| PRODUCT # | DESCRIPTION |
|-----------|-----------------------|
| TT-SCALE | REFRIG CHARGING SCALE |

Package Includes:

- Slip resistant weighing platform
- Hand Control
- (1) 9V battery
- Heavy duty carrying case
- Weighing Capacity: 220 lbs. (100 Kg.)
- Accuracy: +/- 0.5%
- Resolution: .25oz. / .01 Kg

Display:

- High Resolution LCD screen with backlight
- Weight 4 lbs. in case



VACUUM PUMPS

| PRODUCT # | DESCRIPTION |
|-----------|--------------------|
| TT-V5 | 5.5CFM VACUUM PUMP |

2-stage Dual Voltage (110-220v / 50-60 Hz)

- 2 CFM Unit 1/4 Hp Vacuum Pump
- 5 CFM Unit 1/2 Hp Vacuum Pump
- 9 CFM Unit 1 Hp Vacuum Pump



CONDENSATE PUMPS

| PRODUCT # | DESCRIPTION |
|-----------|--------------------------------|
| TT-CP-20T | WITH TUBE, 20' LIFT 115 VOLT |

CONDENSATE PUMPS

- 20 ft. Lift Condensate Pump with Tubing
- 115 volt or 230
- 4 Water Ports
- Alarm contacts

WELDING TORCH KIT

| PRODUCT # | DESCRIPTION |
|-----------|-------------------|
| TT-100 | WELDING TORCH KIT |

WELDING TORCH KIT

- TopTech Welding Kit TT-100





SOLID CORE REFRIGERANT DRIERS

- Suction Line and Liquid Line Driers
- R410a compatible printed on box and drier
- Hard Drawn Copper Ends
- Solid Core
- XH-11 Desiccant

LIQUID LINE BI-FLOW

PRODUCT # DESCRIPTION

| | |
|--------------|-----------|
| TT-LLDBF083S | 3/8S 8CI |
| TT-LLDBF163S | 3/8S 16CI |

LIQUID LINE

PRODUCT # DESCRIPTION

| | |
|------------|-----------|
| TT-LLD083S | 3/8S 8CI |
| TT-LLD163S | 3/8S 16CI |

SUCTION LINE

PRODUCT # DESCRIPTION

| | |
|------------|------------|
| TT-SLD165S | 5/8S 16CI |
| TT-SLD166S | 3/4S 16CI |
| TT-SLD167S | 7/8S 16CI |
| TT-SLD305S | 5/8S 30CI |
| TT-SLD306S | 3/4S 30CI |
| TT-SLD307S | 7/8S 30CI |
| TT-SLD309S | 1 1/8 30CI |

LEAK DETECTOR

PRODUCT # DESCRIPTION

| | |
|----------|-------------------------------|
| TT-LD | REFRIG LEAK DETECTOR |
| TT-LD400 | REFRIGERANT GAS LEAK DETECTOR |



MANIFOLD GAUGE SET

PRODUCT # DESCRIPTION

| | |
|----------|-------------------------|
| TT-2VM5H | 2VLV MNFLD W/5 FT HOSES |
|----------|-------------------------|

MANIFOLD GAUGE SET

- Metal Handles
- Brass Manifold
- R-22, R-410a, R-404
- 5 Ft. Hoses High Pressure Hoses
- Rubber Gauge Covers



SIGHT GLASS

PRODUCT # DESCRIPTION

| | |
|---------|------------------|
| TT-SG38 | 3/8" SIGHT GLASS |
|---------|------------------|

SIGHT GLASS

Moisture Indicator

- Use With R-410A, R-22, R-502, R-12 Systems
- Solid Copper Fittings
- Brass Body



TUBE CUTTERS

PRODUCT # DESCRIPTION

| | |
|----------|--------------------------|
| TT-70000 | 7/8 OD MINI TUBE CUTTER |
| TT-70001 | 1-1/4" O.D TUBE CUTTER |
| TT-70022 | REVERS. RATCHET WRENCH |
| TT-70024 | 1-1/8" OD MINI TUBE CUTT |
| TT-70078 | PVC RATCHET CUTTER 1-5/ |
| TT-70090 | 1-5/8" O.D TUBE CUTTER |





RATCHET WRENCH

| PRODUCT # | DESCRIPTION |
|-----------|------------------------|
| TT-70022 | REVERS. RATCHET WRENCH |



RATCHET CUTTER

| PRODUCT # | DESCRIPTION |
|-----------|-------------------------|
| TT-70078 | PVC RATCHET CUTTER 1-5/ |



BLADES

| PRODUCT # | DESCRIPTION |
|-----------|--------------------|
| TT-156 | RECIP BLD 12"X6TP |
| TT-614 | RECIP BLD 6"X14T |
| TT-618 | RECIP BLD 6"X18TPI |
| TT-624 | RECIP BLD 6"X24T |
| TT-636 | RECIP BLD 6"X6TPI |
| TT-656 | RECIP BLD 6"X6TPI |



SCREWDRIVER

| PRODUCT # | DESCRIPTION |
|-----------|--------------------|
| TT-SHOLD | SCREWDRIVER W/SCHR |

MAGNETIC DRILL CHUCKS

| PRODUCT # | DESCRIPTION |
|--------------|------------------|
| TT-MSH1/4MC | 1/4" MAGNETIC DR |
| TT-MSH5/16MC | 5/16 MGNTC DRILL |



**"Hurricane Rated"
Condensing Unit
Tie Down Clips**



TT-BMTD0611
4" Tie Down Clip



TT-BMTD0606
6" Tie Down Clip



TT-BMTD0608
8" Tie Down Clip



TT-BMTD062
6" Fat Cat
Tie Down Clip

Each Package of TopTech Condensing Unit Tie Down Clips include a photocopy of the certified signed and stamped engineered drawings to submit with permits. TopTech Condensing Unit Tie Down Clips are designed to be in compliance with Florida Building Code 2007 edition with 2009 amendments and ASCE 7-05 chapter 6. The TopTech Condensing Unit Tie Down Clips are made from 14 gauge double hot dipped galvanized steel with a thickness of .0785" minimum. Clip #TT-BMTD062 is 12 gauge double hot dipped galvanized steel with a thickness of .115 minimum.



DUAL HEX WRENCH ADAPTER KEY

| PRODUCT # | DESCRIPTION |
|-----------|-------------------------|
| TT-DHW316 | DUAL HEX WRENCH ADAPTOR |



FLAT WASHERS

| PRODUCT # | DESCRIPTION |
|-----------|------------------|
| TT-3/8FLW | 3/8" X 1" WASHER |



HEX NUTS

| PRODUCT # | DESCRIPTION |
|-----------|-------------------|
| TT-3/8HN | 3/8" HEX NUT (EA) |



TREADED COUPLINGS

| PRODUCT # | DESCRIPTION |
|-----------|---------------|
| TT-3/8TC | 3/8" ROD CPLG |



TOWELS

| PRODUCT # | DESCRIPTION |
|------------------|------------------------------|
| TT-TOWEL-ROLL | TOWELS 20PC ROLL |
| TT-TOWEL-SHOPCLR | SHOP TOWELS COLOR ASORTMENT |
| TT-TOWEL-SHOPWHT | SHOP TOWELS ALL WHITE |
| TT-TOWEL-SURG | SURGICAL TOWEL 5 LB 40PC BOX |



PLASTIC ANCHORS KITS

| PRODUCT # | DESCRIPTION |
|----------------|------------------|
| TT-AK1/4HW100 | ANCHOR SCREW KIT |
| TT-AK3/16HW100 | ANCHOR KIT |
| TT-AK5/16HW50 | ANCHOR SCREW KIT |



WIRE NUTS (100 per Pkg.)

| PRODUCT # | DESCRIPTION |
|-----------|---------------------|
| TT-WNB | BLUE WIRE NUTS |
| TT-WNO | ORANGE WIRE NUTS |
| TT-WNR | RED WIRE NUTS |
| TT-WNY | YELLOW WIRE NUTS |
| TT-WWNB | WING BLUE WIRE NUTS |



DUCT STRAP

| PRODUCT # | DESCRIPTION |
|-------------|-----------------------------------|
| TT-36NSTRAP | 36 IN DUCT STRAP NATURAL – 50/Pkg |
| TT-48NSTRAP | 48 IN DUCT STRAP NATURAL – 50/Pkg |



WEBBING

| PRODUCT # | DESCRIPTION |
|--------------------|--------------------------|
| TT-WEBBINGSTRAP | BLACK 2" WEBBING STRAP |
| TT-WEBBINGSTRAP/UL | WEBBING STRAP UL PRINTED |





HOSE CLAMPS

| PRODUCT # | DESCRIPTION |
|---------------|----------------------------|
| TT-HOSECLAMPS | HOSE CLAMP ASSORTMENT 30PC |

BRUSHES

| PRODUCT # | DESCRIPTION |
|-----------|-------------------|
| TT-B2 | 2" CHIP BRUSH |
| TT-B21/2 | 2 1/2" CHIP BRUSH |
| TT-B3 | 3" CHIP BRUSH |

CABLE TIES

| PRODUCT # | DESCRIPTION |
|----------------------|---------------------------------|
| TT-CABLETIE11B | CABLETIE 11 IN 100PC BLK |
| TT-CABLETIE11N | CABLETIE 11 IN 100PC NAT |
| TT-CABLETIE14B | CABLETIE 14 IN 100PC BLK |
| TT-CABLETIE14N | CABLETIE 14 IN 100PC NAT |
| TT-CABLETIE24B | CABLETIE 24 IN 500PC BLK |
| TT-CABLETIE24N | CABLETIE 24 IN 50PC NAT |
| TT-CABLETIE7B | CABLETIE 7 IN 100PC BLK |
| TT-CABLETIE7N | CABLETIE 7 IN 100PC NAT |
| TT-CABLETIEMOUNT11B | CABLETIE MOUNT 1.1 IN 25PC BLK |
| TT-CABLETIEMOUNT11N | CABLETIE MOUNT 1.1 IN 25PC NAT |
| TT-CABLETIETOOLHD | CABLETIE TOOL/ HEAVY DUTY 175LB |
| TT-CABLETIETUBE/TOOL | CABLETIE TUBE ASST CLR W/TOOL |
| TT-CABLETIETUBE600B | CABLETIE TUBE 600PC BLACK |
| TT-CABLETIETUBE600N | CABLETIE TUBE 600PC NATURAL |
| TT-CABLETIETUBE650B | CABLETIE TUBE 650PC BLACK |
| TT-CABLETIETUBE650N | CABLETIE TUBE 650PC NATURAL |

Monitor Digital Trifasico de Linea de Voltaje

El DTP-3 es un monitor de voltaje y sistema de control automático digital.

Por estar midiendo continuamente la entrada de la línea de voltaje, este monitor detectará voltajes fuera de la tolerancia que se fijó.

Si este limite es excedido arrancará el Regulador de respuesta. Este regulador podrá ser fijado a una mayor escala de tiempo para evitar el ruido molesto del corte y arranque, o a una escala menor de tiempo para ofrecer un mayor nivel de protección de carga.

Si el voltaje permanece fuera de la tolerancia seleccionada después que el tiempo ha transcurrido, el DTP-3 apagará su relevador de rendimiento y protegerá su aparato. Mientras la carga esta apagada un regulador de cierre adicional es activado para evitar arranques inmediatos.

- Lectura de línea y de la carga de voltaje instantáneamente
- Tres simples botones de acceso para fácil monitoreo e instalación
- Registro de problemas en falla de memoria para posterior exhibición
- Seis voltímetros digitales integrados
- Regulador de arranque secuencial integrado
- Regulador de cierre integrado
- Regulador de respuesta integrado



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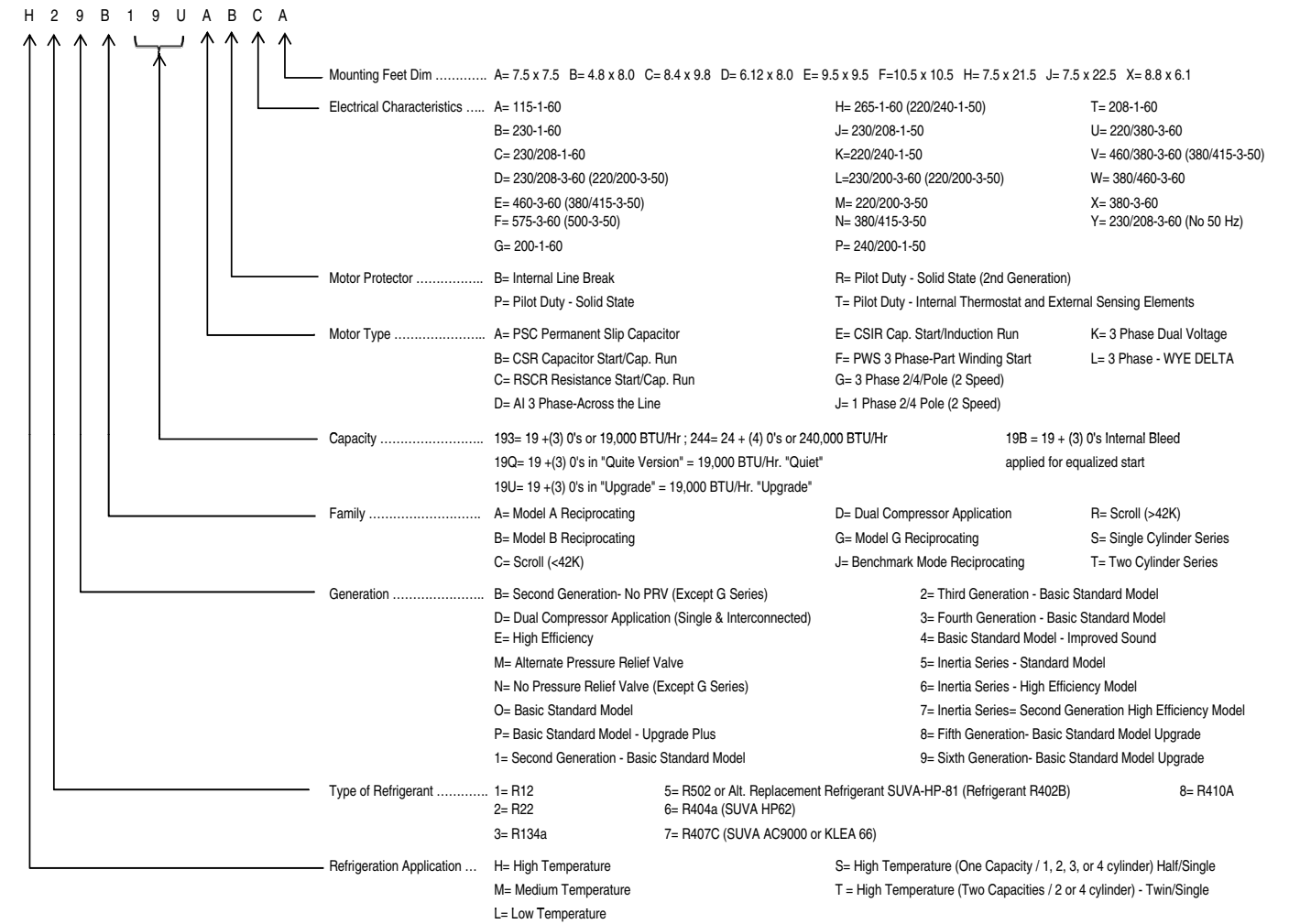
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MODEL NUMBERS
Nomenclature Explained

EXAMPLE:

| | | | | | | | |
|-------------------|------------------------------|-------------|--|--|-------------|-----------|------------------|
| AE | A | 4 | 4 | 40 | Y | XA | XC |
| COMPRESSOR FAMILY | RELEASE VARIANT (GENERATION) | APPLICATION | NUMBER OF DIGITS IN RATED BTU CAPACITY | FIRST TWO DIGITS IN RATED BTU CAPACITY | REFRIGERANT | VOLTAGE | CONDENSING UNITS |

- AE
- AG
- AH
- AJ
- AK
- AV
- AW
- AZ
- HG
- RG
- RK
- TP
- TH

A = 1st
B = 2nd
C = 3rd
ETC.

In this example (4) total digits, with the first two (40), or 4,000 BTU capacity

- PRIMARY REFRIGERANTS**
- A = R12
 - B = R410A
 - C = R407C
 - E = R22
 - F = R417a
 - J = R502
 - Y = R134a
 - Z = R404A/
 - R507

See Unit Information on Page 2.

| PRIMARY APPLICATION PARAMETERS | | |
|--------------------------------|------------|-----------------------|
| EVAP. TEMPERATURE | RATING PT. | MOTOR STARTING TORQUE |
| 1. Low | -10 F | Normal |
| 2. Low | -10 F | High |
| 3. High | +45 F | Normal |
| 4. High | +45 F | High |
| 5. Air Cond.* | +45 F | Normal |
| 6. Medium | +20 F | Normal |
| 7. Medium | +20 F | High |
| 8. Air Cond. | +49 F | Normal |
| 9. Commercial | +20 F | High |
| 0. Commercial | +20 F | Normal |
| A. Medium/Low | +20 F | Normal |

* Application "5" compressors, when applied to units, become application "4" in the units model number.

VOLTAGE CODES

- XA = 115-60-1; 100-50-1
- XB = 230-60-1; 200-50-1
- XC = 220-240-50-1
- XD = 208-230-60-1; 200-50-1
- XF = 208-230-60-3; 200-240-50-3
- XG = 460-60-3; 380-420-50-3
- XH = 575-60-3; 480-520-50-3
- XN = 208-230-60-1; 200-220-50-1
- XP = 220-60-1; 200-50-1
- XT = 200-230-60-3; 200-220-50-3
- XU = 100-60-1; 100-50-1
- XV = 265-60-1
- AB = 115-60-1; 90-50-1
- VA = 265-60-1; 240-220-50-1

Note: For explanation of voltages not listed, contact Tecumseh Compressor Company.

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Copeland Scroll™ Nomenclature

1 Family Series
Z = Scroll

2 Application Range

| Code | Refrig. | Description |
|------|-------------|-------------|
| B | R-22 | MT/HT |
| C | Helium | LT/MT |
| F | R-404A/134a | LT/MT |
| P | R-410A/B | HT-HP |
| R | R-22/407C | HT |
| S | R-404A/134a | MT |

3 Modulation (Optional)

| Code | Description |
|------|----------------|
| T | Even Tandem |
| U | Uneven Tandem |
| S | Two Step |
| V | Variable Speed |

4 5 6 Capacity
Nominal Capacity at Rating Condition two or three digits

7 Capacity Multiplier
K 1,000
M 10,000

8 Model Variation

1
2
3
4
A
C
D

9 (Optional)
E POE Oil
G PAG Oil
H HSPOE Oil

10 Motor Types

| Phase | Code |
|-------|------|
| 1 | P |
| 3 | T |

11 Motor Protection
F Internal Inherent Protection
W External Electronic Protection

12 Electrical Codes

| 60 Hz | 50 Hz | Code |
|-----------|-----------|------|
| 208/230-3 | 200-3 | C |
| 460-3 | 380/420-3 | D |
| 575-3 | 500-3 | E |
| 265-1 | 220/240-1 | J |
| - | 380/420-3 | M |
| 265-1 | - | Q |
| 208/230-1 | - | V |
| - | 200/220-3 | W |
| 200/230-3 | 200/220-3 | 5 |
| 380-3 | - | 7 |

13 14 15 Bill of Material Product Variations

X X X X X X X X X - X X X - X X X



New Danfoss Scroll or Reciprocating compressors

Always the right choice



Advantages new MLZ Scroll compressors:

- + Lighter and smaller footprint compared to other alternatives
- + Unique disc check valve ensuring quiet, vibration-free operation
- + Including sight glass
- + Combination of energy-efficient motor and a scroll wrap optimized for refrigeration applications



Nomenclature

Danfoss Scroll compressor model numbers have significance as indicated below:

| | Type | Size | Motor | Features |
|--|------|------|-------|----------|
| | HRH | 036 | U1L | P6 |

Application
H: high temperature air conditioning
E: with economizer

Family
D: residential scroll
C: light commercial scroll
R: residential scroll (new platform)
L: light commercial scroll (new platform)

Refrigerant and lubricant
M: R-22, mineral or alkylbenzene oil
P: R-407C, POE lubricant
H: R-410A, POE lubricant
J: R-410A, PVE lubricant

Nominal capacity
 In thousands of Btu/h @ 60Hz, ARI conditions

Model variation
T: design optimized for 7.2/54.4 (45/130)
U: design optimized for 7.2/37.8 (45/100)

| Other features | Oil sight glass | Oil equalization | Oil drain | LP gauge port |
|----------------|-----------------|------------------|-----------|---------------|
| 2 | None | None | None | Schrader |
| 5 | Thread | Rotolock | NPT | Schrader |
| 6 | None | None | None | None |
| 7 | Thread | None | None | None |
| 8 | None | Brazed | None | None |

Tubing and electrical connections
P: brazed connections, spade terminals
C: brazed connections, screw terminals
R: rotolock connections, screw terminals

Motor protection
L: internal motor protection

Motor voltage code
1: 208-230 V 1~ 60 Hz
2: 208-230 V 3~ 60 Hz
4: 380-400 V 3~ 50 Hz and 460 V 3~ 60 Hz
5: 220-240 V 1~ 50 Hz and 265 V 1~ 60 Hz
7: 500 V 3~ 50 Hz and 575 V 3~ 60 Hz
9: 380 V 3~ 60 Hz

Voltage

| Voltage Codes | Copeland | Danfoss |
|-----------------------------|------------|---------|
| 208-230V/1~/60Hz | PFV | 1 |
| 208-230V/3~/60Hz | TFC or TF5 | 2 |
| 380V/3~/60Hz & 460V/3~/60Hz | TFD | 4 |

Note on SEER ratings:

The Scroll Tech compressors have motors optimized for the different SEER ratings. Use motor variation «U» for 13 SEER applications and «T» for 10 SEER



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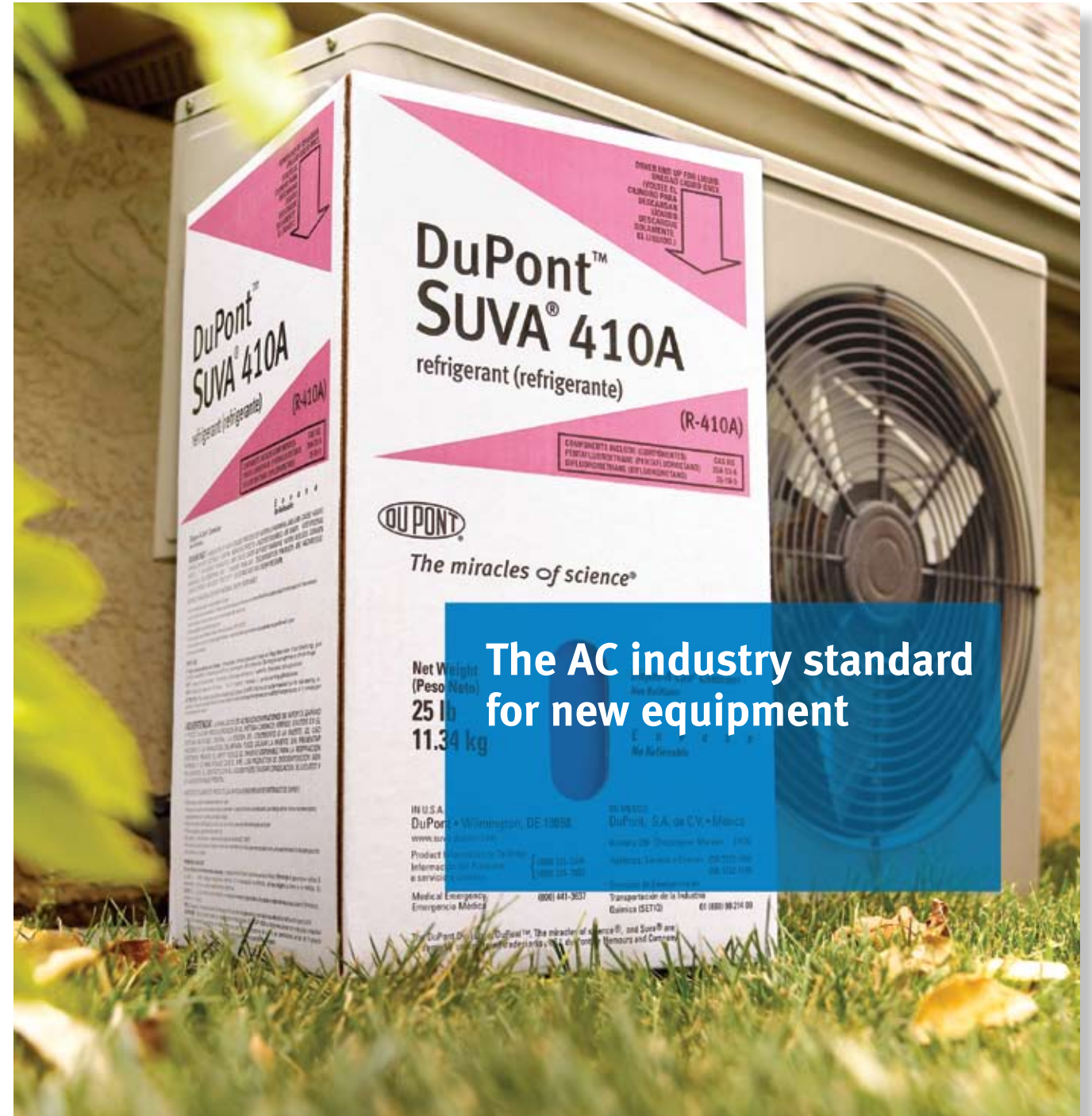
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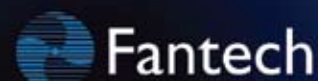
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