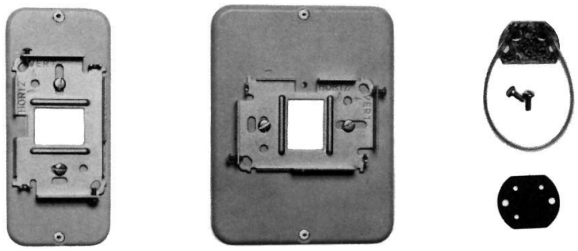
T-4000-605 (Beige) and T-4000-630 (White) Universal Conversion Kits for Pneumatic Room Instruments Catalog Page

LIT-1921720

2019-12-20



Description

The T-4000-605 (Beige) and T-4000-630 (White) Universal Conversion Kits provide all the parts necessary to remodel existing room installations, both Johnson Controls and non-Johnson Controls. Both of these kits can be applied to existing instrument installations with exposed or concealed tubing.

Refer to *T-4000-605 (Beige) and T-4000-630 (White) Universal Conversion Kits for Pneumatic Room Instruments Technical bulletin (LIT 7171085X)* for additional important product information.

Johnson Controls

Features

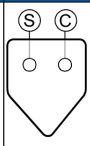
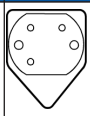
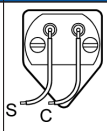
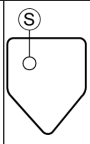
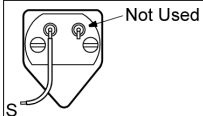
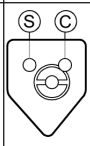
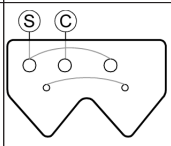
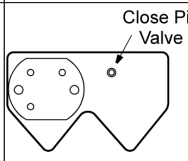
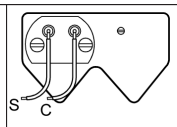
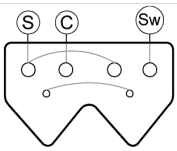
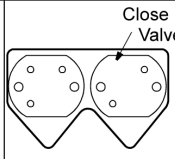
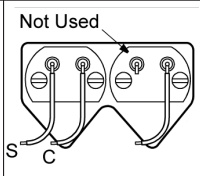
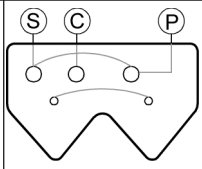
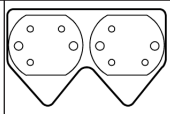
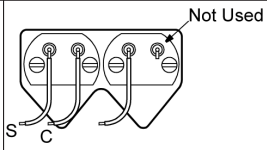
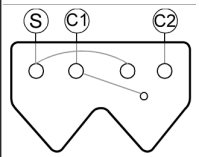
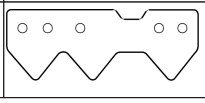
- includes adaptor cover/subplate with:
    - cover plate with room instrument mounting bracket
    - two #6 x 3/8 in. pan-head, self-tapping screws
    - subplate and two #6-32 x 5/8 in.pan-head taptite screws
- terminal connector and tubing with:
    - terminal connector (three-tube with angle terminals and O-rings assembled)
    - three 8 in. lengths of 5/32 in. O.D. (black) polyethylene tubing with anti-kink springs attached
    - one 8 in. length of 5/32 in. O.D. (amber) polyurethane tubing with anti-kink spring
    - one 9 in. length of 1/4 in. O.D. (blue) polyurethane tubing with anti-kink spring
- T-400 air fittings with:
    - supply terminal-angle fitting with integral filter
    - two control terminal-angle fittings with integral filters
    - two gaskets
    - two gasket plates
    - four mounting screws
- adjustable pipehead with:
    - adaptor plate
    - five #8 flat round washers
    - three flat round washers gaskets
- tube couplings and clamps with:
    - three 5/32 x 5/32 in. tubing couplers
    - three 5/32 x 1/4 in. tubing couplers
    - three flat round gaskets
- mounting hardware with:
    - two #4-40 x 1-5/8 in. pan-head machine screws
    - two #5-40 x 3/4 in. studs
    - four #5-40 hex nuts
    - two # 5-40 x 1-1/4 in. pan-head machine screws
    - two #6 x 3/8 in. pan-head self-tapping screws
    - two #6-32 x 7/16 x 1-1/4 in. and 2 in.pan-head machine screws
    - two #6 x 1-3/4 in. pan-head self-tapping screws
    - two #6 star washers
    - one #8 x 1-1/2 in. pan-head self-tapping screw
    - two #8-32 x 1-3/4 in. pan-head machine screws
    - two #10-24 x 1-1/2 in. pan-head machine screws
    - two #10-24 x 1-1/2 in. pan-head machine screws
    - two #10 star washers
    - installation instructions 24-1855-5

Johnson Controls

Applications

The following tables list all of the known Johnson Controls conversions.

Table 1: Pipehead, Gasket, and Adapter Arrangements

Style	Basic Pipehead [1,2,3,4]	Description	Gasket Replacement	Pipehead Adaptor
I		Single Size Pipehead, Two-Pipe		
IIa		Single Size Pipehead, One-Pipe (Non-Relay)		
IIb		Single Size Pipehead, Two-Pipe with Integral Restrictor for Non-Relay Controllers	Contact Branch Office for Customized Conversion Possibilities.	
III		Dual Size Pipehead Two-Pipe (Heating-Cooling or Dual Temp)		
IV		Dual Size Pipehead, Three-Pipe (Day-Night with Switchline)		 Sw to Third Terminal
V		Dual Size Pipehead, Three-Pipe (Submaster)		 P to Third Terminal
VI		Dual Size Pipehead, Three-Pipe (Two-Single Controllers or Single Controller plus Two-Position Relay)	This special pipehead can be converted several ways depending on the controller to be used and the heating system to be converted. For example: • Use T-4002 with Control Air to C1 only or to both C1 and C2. (A 5/32 in. Brass Tee, F-700-83, is Required if both C1 and C2 are used.) • Use T-4516 with the Third Terminal Connected to C2. • Use T-4003 with the Third Terminal Connected to C2.	
VII		Triple Size Pipehead, Three-Pipe (Or More)	Contact Branch Office for Customized Conversion Possibilities.	

1 S = Main Supply Air Lines
2 P = Pilot Air Line
3 C, C1, C2 = Control 33 (Branch) Air Lines
4 SW = Switch Air Line

Johnson Controls

Table 2: Johnson Controls Conversions

Model	Pipehead Style	Recommended Conversion (Using The T-4000-605 or T-4000-630 Kit)
T-315	V	T-4003
T-400	I	T-4002
T-401	I	T-4002
T-402	I	T-4002 and Two-Position Air Switching Device
T-403	I	T-4002
T-405	III	T-4506
T-408	I	No Direct Replacement [1]
T-411	V	
T-418	III	
T-423	III	T-4756
T-425	I	T-4002 and Two-Position Air Switching Device
T-431	VII	No Direct Replacement [1]
T-432	III	T-4756
T-435	VII	No Direct Replacement [1]
T-441	IIa	T-4100
T-441	IIb	No Direct Replacement [1]
T-445	IIb	No Direct Replacement [1]
T-460	III	T-4506 With Manual Index Switch
T-461	III	
T-462	III	T-4506 and Two-Position Air Switching Device
T-465	IV	T-4516
T-1210	I	T-5002
H-101	V	No Direct Replacement [1]
H-102	I	H-4100
H-103		
H-104	I	H-4100 and Two-Position Air Switching Device
H-105	I	H-4100
H-107		
H-1210	I	H-5100

1 Contact branch office for custom conversion possibility.

The T-4000-605 (Beige) and T-4000-630 (White) Universal Conversion Kits are designed to convert existing installations including:

Table 3: Non-Johnson Controls Conversions

Converts the Following Non-Johnson Controls Thermostats:	
Barber-Colman “TK” Series Wallbox and Mortar Joint	Powers TH180 Wallbox and Drywall Mounting
Honeywell TO900 or TP900 Series Wallbox	Robertshaw T-15 (Metal) Early Wallbox and Mortar Joint
Honeywell TO910 or TP910 Series Wallbox and Mortar Joint	Robertshaw T-15 Later Wallbox and Mortar Joint
Honeywell TP970 Series Shallow and Deep Wallboxes	Robertshaw T-18 (Plastic) Drywall Mounting
Powers “D” Wallbox and Ground Plate	Draeger (ITT/Essen/Johnson Controls) Wallbox
Powers T-21 Ground Plate, Wallbox, and Mortar Joint	UPC

Johnson Controls

Selection Chart: Conversion Kits T-400 Series to T-4000 Series Controllers

Figure 1: Bakelite Back Adaptors

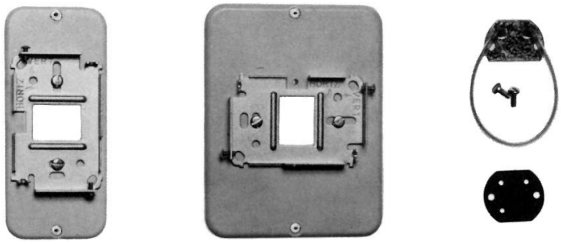


Table 4: T-4000-605 (Beige) and T-4000-630 (White) Universal Conversion Kits (Part 1 of 3)

Code Number	Callout	Description
T-4000-610	---	Bakelite Back Adaptor Style for Single Temperature Vertical Instruments with One Pipehead Adaptor
T-4000-611	---	Bakelite Back Adaptor Style for Dual Temperature Vertical or Horizontal Instruments with Two Pipehead Adaptors

Figure 2: Metal Back Subplate

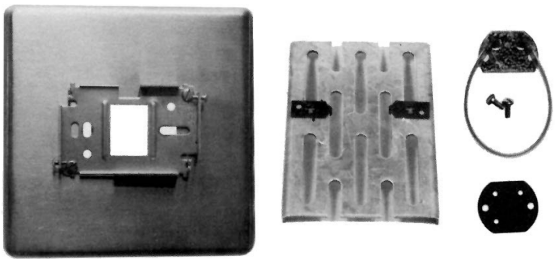


Table 5: T-4000-605 (Beige) and T-4000-630 (White) Universal Conversion Kits (Part 2 of 3)

Code Number	Callout	Description
T-4000-612	---	Metal Back Subplate Style for Single or Dual Temperature Vertical or Horizontal Instruments with Two Pipehead Adaptors

Figure 3: Guard Adaptors

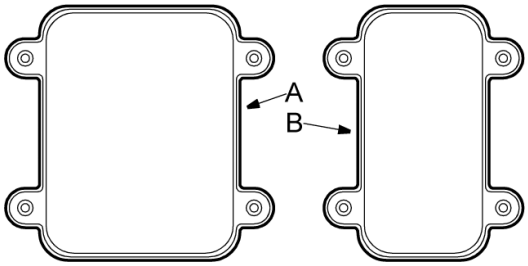


Table 6: T-4000-605 (Beige) and T-4000-630 (White) Universal Conversion Kits (Part 3 of 3)

Code Number	Callout	Description
T-4000-603	A	Guard Adaptor for Dual Instrument Guards (Use with T-4000-611)
T-4000-604	B	Guard Adaptor for Single Instrument Guards (Use with T-4000-610)

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