



INSTALL CONFIDENCE.

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TO: All York Branch Service Managers
All York Distribution Service Managers
All Regional Managers

SUBJECT: New Outdoor Platform matchups for legacy air handlers and indoor coils

Introduction

This letter is to help manage current indoor inventory with new outdoor models. System matches are available in AHRI. Attached is a cross reference Appendix A matrix detailing approved matches with TXVs. This letter also provides information regarding the chatleff style TXVs that will be used with the new (aluminum) indoor coils and air handlers.

Matching New R-410A Outdoor with Current (Copper) Indoor Coils and Air Handlers

New OD + Current ID
AHRI Directory only
Example: **YCS36 + FC43**

All new outdoor units matched with current (copper) indoor units will require an indoor TXV. The indoor orifices shipped with the new outdoor units will **not** fit the current indoor coils, and the orifice sizes listed in the System Charge Table for the new outdoor units are not equivalent to the same orifice size in the current indoor coil design.

It is **not** an approved match up to use an orifice when applying a current indoor coil with a new outdoor unit. The recommended indoor expansion device is determined by the TXV listed for the new outdoor unit in the cross reference Appendix A matrix attached to this letter.

There are No Matches with Current R-410A Outdoor units with New (Aluminum) Indoor Coils and Air Handlers

This combination is not recommended. System matches are **not** provided or condoned for this combination.

TXV STYLE

For the new (aluminum) indoor coils and air handlers, a new TXV style will be used. The distributor connection at the indoor coil is a different design than used in the previous generations.

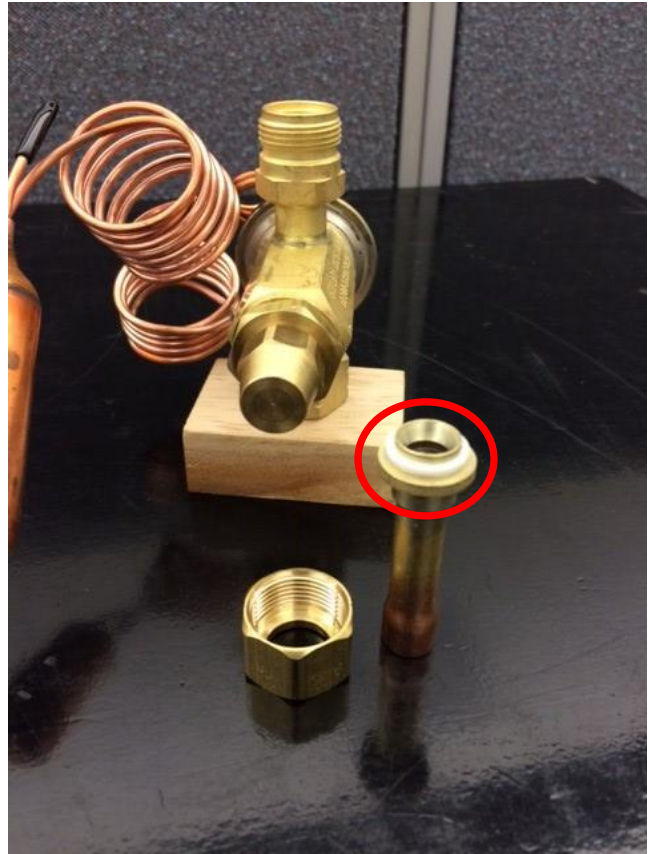
Notice a Teflon seal is used on the new design, the other significant change is the type and size of connection. The new design utilizes a .750” “chatleff” connection, the old style uses a .625” “Aeroquip” connection.

The indoor TXVs and orifices designed for the new platform will not mount to the current copper coils due to having a different distributor fitting. The designs are **not** interchangeable.

Aeroquip (Current ID)



Chatleff (New ID)



TXV Nomenclature Table

Accessory Nomenclature – TXV KITS

1	Product Category	1 = Non-Electrical Accessory
TV	Family Identifier	TV = Thermal Expansion Valve
M	Equalizer Fitting	M = Mechanical
B	Refrigerant	B = R-410A (E-Chassis)
		C = R-22 (Y-Chassis)
		D = R-407C (E-Chassis)
A	TXV Indicator	A = Valve A C = Valve C
		B = Valve B D = Valve D
1	Connection Style	1 = Chatleff @ .750"
		2 = Aeroquip @ .625"

R-410A TXV Table

Listed TXV for New ID Coil (Tab Data Sheet)	Equivalent for Current ID
BA1	BA2
BB1	BB2
BC1	BC2
BD1	BD2

Install the TXV according to the instructions provided with the TXV.

To determine the proper system charge, follow the Outdoor Unit Installation Instructions for charging to the Subcooling Charging Chart provided with the outdoor unit and online in the Service Application Data file.

See Appendix A for a table of approved current ID + New OD combinations. As always, verify system matches and performance in the online AHRI directory at www.ahridirectory.org.

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