

↑ INCREASE SEER up to 40%

↓ SAVE ENERGY up to 40%

# TEV Kit for A/C and Heat Pumps

## Studies Show the Installation of a TEV Increases SEER on Mismatched Systems

With energy rates skyrocketing 40% over the last decade, it's no surprise homeowners are seeking energy savings. This coupled with the sluggish economy leaves consumers reluctant to invest in installing expensive, government mandated, 13 SEER equipment and compelling some to maintain old units.

While a homeowner may be under the impression that installing a new 13 SEER outdoor unit will increase the efficiency of their existing 10 SEER indoor unit, this is not the case. These two units combined will actually reduce capacity by up to 40% and leave the homeowner with an 8.46 SEER rating. Efficiency savings can only be

realized if a TEV is installed on the indoor unit.

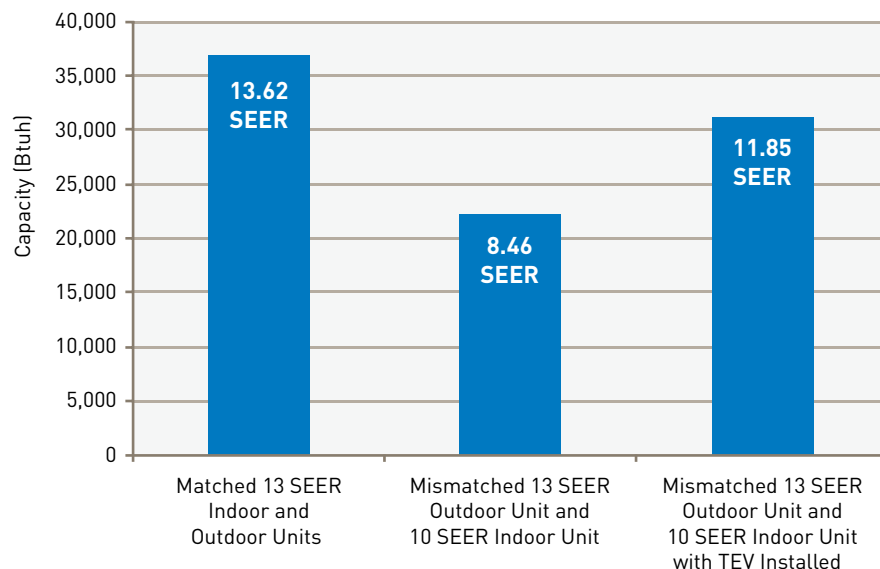
Installing a TEV allows efficiency savings and increases SEER by:

- ✓ **Reducing compressor run time** by closing within seconds of cycling off.
- ✓ **Controlling refrigerant flow** by adjusting itself to load requirements.
- ✓ **Protecting the compressor** by preventing refrigerant flood back during changes in operating conditions.
- ✓ **Improving evaporator performance** by compensating for under- or overcharge.

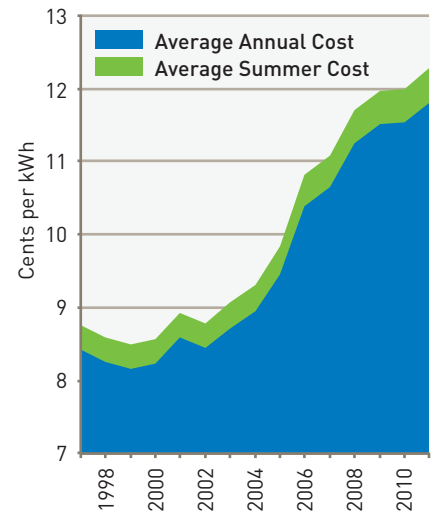


*Sporlan provides an energy saving solution in one convenient kit!*

Graph 1 - Bristol Compressors' Mismatched Systems Testing<sup>(1)</sup>



Graph 2 - Residential Electricity Cost (Annual United States Average)



U.S. Energy Information Administration  
Electric Power Monthly, February 2012

While Sporlan always suggests installing ARI approved matched systems, studies<sup>(1)</sup> have shown that replacing a fixed restrictor with a TEV on mismatched systems can improve efficiency and increase efficiency ratings from 8.46 SEER to 11.85 SEER. **This could equate to an average annual savings of \$160.**

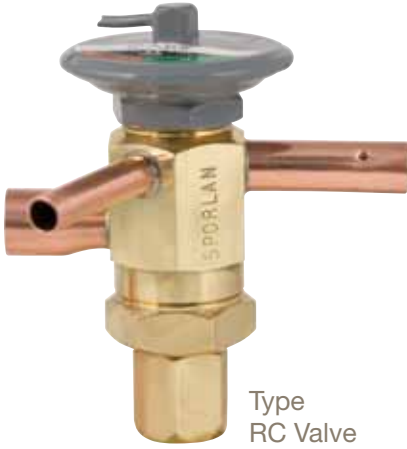


ENGINEERING YOUR SUCCESS.

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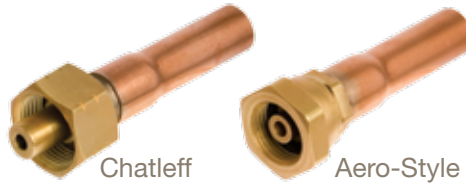
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# TEV Kit for A/C and Heat Pumps



Type RC Valve

- Easily retrofit existing low grade SEER and mismatched systems.
- Built-in check valve allows reverse flow on heat pump applications.
- Externally adjustable valve with balanced port construction.
- Available for both R-22 and R-410A applications.
- 3 connection options in every kit. Choose from:
  - Standard ODF
  - Chatleff
  - Aero-Style



Chatleff

Aero-Style

Table 1 - Kit Contents

Refrigerant	Valve Type	Item Number	Nominal Capacity	Valve Connections Inches (ODF Solder)	Adaptors Included in Kit	
					Chatleff	Aero-Style
<b>R-22</b>	RCVE-2-GA Kit	20083-000	2	3/8 X 1/2	1/2"	1/2"
	RCVE-3-GA Kit	20083-009	3	3/8 X 1/2	1/2"	1/2"
	RCVE-4-GA Kit	20083-001	4	1/2 X 1/2	1/2"	1/2"
	RCVE-5-GA Kit	20083-002	5	1/2 X 1/2	1/2"	1/2"
	RCVE-6-GA Kit	20083-003	6	1/2 X 1/2	1/2"	1/2"
<b>R-410A</b>	RCZE-2-GA Kit	20083-004	2	3/8 X 1/2	1/2"	1/2"
	RCZE-3-GA Kit	20083-005	3	3/8 X 1/2	1/2"	1/2"
	RCZE-4-GA Kit	20083-006	4	1/2 X 1/2	1/2"	1/2"
	RCZE-5-GA Kit	20083-007	5	1/2 X 5/8	5/8"	5/8"
	RCZE-6-GA Kit	20083-008	6	1/2 X 5/8	5/8"	5/8"

1/4" Equalizer line; 30" Capillary tube length

**INCREASE ENERGY EFFICIENCY. REDUCE OPERATING COSTS.**



For more information on the TEV Kit for A/C and Heat Pumps, contact your local Sporlan Sales Engineer.

<sup>[1]</sup> Byrom, Brian. "When 13+10=8." RSES Journal August 2007: 21-23. Print.

