

# Copeland Scroll Digital™ retrofit kit



## Deliver improved capacity, temperature and humidity control

The new Copeland Scroll Digital retrofit kit provides a complete and convenient solution for in-field compressor replacements. Designed to help contractors take advantage of the precise capacity, temperature, and humidity control offered by the Copeland Scroll Digital compressor, the kit includes all the components necessary to successfully retrofit an HVAC system in the field.

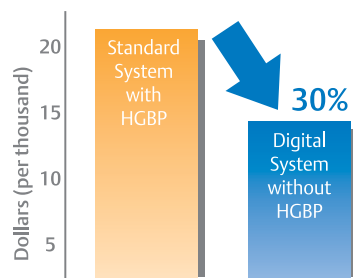
The retrofit kit features the new Emerson™ Commercial Comfort Controller and the required valve, coil, thermistor, and tubing needed for a complete compressor replacement. The Emerson Commercial Comfort Controller is a wall-mounted, BACnet programmable thermostat that enables variable capacity, dehumidification, improved system performance, and reduced operating costs without the expense of a large building automation system.

This Copeland Scroll Digital retrofit kit is best applied to job sites with frequent problems or nuisance issues in which retrofitting a Copeland Scroll Digital compressor is the ideal solution. Copeland Scroll Digital compressors offer modulation from 10-100%, allowing your customers' cooling systems to automatically adjust capacity as needed while reducing energy consumption. This scroll technology is up to 30 percent more efficient than traditional methods of system modulation.

The Copeland Scroll Digital retrofit kit is compatible with 3-15 ton compressors (or multiples up to 30 ton) and for applications including roof top or split commercial and residential unitary applications, heat pumps, chiller, or commercial refrigeration applications.

### With Copeland Scroll Digital compressor technology you can offer your customers:

- Improved full-load and part-load efficiencies
- The ability to hold a precise temperature/humidity to  $\pm 0.5$  °F
- Lower operating costs due to more efficient modulation methods
- Proven oil return enhancing system reliability
- Peace of mind with a simple, reliable design



### Application

- 3-15 ton Copeland Scroll Digital compressors
- Single or multi-stage direct expansion
- Rooftop or split; residential or commercial
- AC heat pumps or chiller

### Features

- Networkable thermostat and controller
- External valve with 24V coil
- Discharge line thermistor
- Copper tubing

### Benefits

- All the components required for a Copeland Scroll Digital compressor retrofit
- Enables precise temperature and humidity control
- Improved cost and efficiency as compared to hot gas bypass systems



For more information, scan with your smartphone or visit [EmersonClimate.com/DigitalRetrofitKit](http://EmersonClimate.com/DigitalRetrofitKit)

Kit Part Number	Description
980-7000-00	3-6 HP
980-7000-01	7-15 HP
943-0175-00	Control only

### Available for these models

Ref.	Model with variations	45°/130° 60Hz		Mechanical				Conn. Size		Cap. (HP)
		Cap. (Btu/h)	EER (Btu/h)	L (in)	W (in)	H (in)	Net Wt. (lbs)	Suct. Dia. (in)	Disch. Dia. (in)	
R-22	ZRD36KC-PFV	36,000	10.90	9.5	9.5	17.1	67	0.750	0.500	3
R-22	ZRD36KC-TF5	36,200	11.60	9.5	9.5	17.1	67	0.750	0.500	3
R-407C	ZRD36KCE-PFV	36,400	10.30	9.5	9.5	17.1	67	0.750	0.500	3
R-407C	ZRD36KCE-TF5/D/7	36,700	10.90	9.5	9.5	17.1	67	0.750	0.500	3
R-22	ZRD42KC-PFJ	43,000	11.10	9.7	9.7	18.2	69	0.750	0.500	4
R-407C	ZRD42KCE-PFJ	43,400	10.40	9.7	9.7	18.2	69	0.750	0.500	4
R-22	ZRD42KC-TFD	43,500	11.50	9.5	9.5	18.2	69	0.750	0.500	4
R-407C	ZRD42KCE-TFD	41,700	10.50	9.5	9.5	18.2	69	0.750	0.500	3
R-407C	ZRD48KCE-TF5	38,700	10.80	9.5	9.5	18.8	72	0.875	0.500	3
R-407C	ZRD48KCE-TFD	48,000	10.90	9.7	9.7	18.8	72	0.875	0.500	4
R-22	ZRD48KC-PFV	49,700	11.50	9.5	9.5	18.8	74	0.875	0.500	4
R-22	ZRD48KC-TFD/7/5	49,800	11.50	9.7	9.7	18.8	72	0.875	0.500	4
R-407C	ZRD48KCE-PFV	50,000	10.80	9.5	9.5	18.8	74	0.875	0.500	4
R-407C	ZRD49KCE-TFD/7/5	46,200	10.20	9.7	9.7	19.5	94	0.875	0.500	4
R-22	ZRD49KC-PFV	49,600	10.90	9.7	9.7	19.5	94	0.875	0.500	4
R-22	ZRD49KC-TFD/7/5	49,600	11.10	9.7	9.7	19.5	94	0.875	0.500	4
R-407C	ZRD61KCE-PFV	57,500	10.10	9.7	9.7	19.5	84	0.875	0.750	5
R-407C	ZRD61KCE-TFD/7/5/E	59,500	10.40	9.7	9.7	19.5	84	0.875	0.500	5
R-22	ZRD61KC-TFD/7/5/E	61,500	11.30	9.7	9.7	19.5	84	0.875	0.500	5
R-22	ZRD61KC-PFV	62,000	10.90	9.7	9.7	19.5	84	0.875	0.750	5
R-407C	ZRD68KCE-TFD	66,500	10.60	9.7	9.7	19.5	89	0.875	0.750	6
R-22	ZRD68KC-TFD	71,000	11.50	9.7	9.7	19.5	89	0.875	0.750	6
R-407C	ZRD72KCE-TFD/7/5	70,500	10.80	9.7	9.7	19.5	88	0.875	0.750	6
R-22	ZRD72KC-TFD/7/5	72,900	11.30	9.7	9.7	19.5	88	0.875	0.750	6
R-407C	ZRD81KCE-TFD	78,000	10.20	9.7	9.7	19.5	90	0.875	0.750	7
R-22	ZRD81KC-TFD/7	81,500	10.90	9.7	9.7	19.5	90	0.875	0.750	7
R-407C	ZRD81KCE-TF7	82,500	10.40	9.7	9.7	19.5	90	0.875	0.750	7
R-407C	ZRD94KCE-TFD/5/E	92,000	11.30	11.5	11.2	18.8	127	1.125	0.875	8
R-22	ZRD94KC-TFD/7/5/E	96,500	11.60	11.5	11.2	18.8	127	1.125	0.875	8
R-407C	ZRD94KCE-TF7	97,500	11.40	11.6	11.2	18.8	127	1.125	0.875	8
R-407C	ZRD125KCE-TFD/5/7/E	119,000	10.90	11.6	11.2	21.0	136	1.375	0.875	10
R-22	ZRD125KC-TFD/5/7/E	128,000	11.90	11.6	11.2	21.0	136	1.375	0.875	11
R-410A	ZPD34K5E-PFV/TFD/E/5/7	34,600	10.20	9.6	9.6	17.7	68	0.875	0.500	3
R-410A	ZPD42K5E-PFV	42,000	10.30	9.6	9.6	17.7	72	0.785	0.500	4
R-410A	ZPD42K5E-TFD/E/5/7	42,600	10.70	9.6	9.6	17.7	72	0.785	0.500	4
R-410A	ZPD51K5E-PFV/TFD/E/5/7	51,400	10.70	9.3	9.3	18.4	73	0.875	0.500	4
R-410A	ZPD54K5E-PFV	54,000	10.50	9.3	9.3	18.4	77	0.785	0.500	5
R-410A	ZPD54K5E-TFD/E/5/7	54,500	10.70	9.3	9.3	18.4	77	0.785	0.500	5
R-410A	ZPD61KCE-TFD/E/5/7	62,000	10.50	9.7	9.7	19.5	89	0.875	0.500	5
R-410A	ZPD67KCE-TFD	67,700	10.70	9.7	9.7	19.5	100	0.875	0.500	6
R-410A	ZPD72KCE-TFD/E/5	71,500	10.50	9.7	9.7	19.5	90	0.875	0.500	6
R-410A	ZPD83KCE-TFD/E/5/7	83,000	10.40	9.7	9.7	19.5	90	0.875	0.500	7
R-410A	ZPD91KCE-TFD/E/5/7	90,100	10.90	9.7	9.9	18.9	92	0.875	0.750	8
R-410A	ZPD103KCE-TFD/E/5/7	105,000	11.00	11.5	11.2	21.0	134	1.375	0.875	9
R-410A	ZPD120KCE-TFD/E/5/7	123,000	11.10	11.5	11.2	21.0	136	1.375	0.875	10
R-410A	ZPD137KCE-TFD/E/5/7	137,500	11.00	11.5	11.2	21.0	135	1.375	0.880	11
R-410A	ZPD154KCE-TWD/E/5/7	155,000	11.00	12.8	11.6	21.7	144	1.375	0.875	13
R-410A	ZPD182KCE-TWD/E/5/7	183,000	11.00	12.8	11.6	21.7	147	1.375	0.875	15

**NOTE:** Compressor must be ordered separately. Kit is compatible only with compressor models listed above.