

Copeland Discus Digital™ Compressors with CoreSense™ Technology

High Efficiency Discus Modulated Refrigeration Applications

Precise Control of Suction Pressure and Temperature

- Minimum food temperature fluctuation resulting in longer shelf life and less food shrink
- Better & consistent TXV operation

Reduced compressor cycling

- Longer contactor life
- Longer compressor life

System Efficiency Improvement

- Eliminates over/under shooting of suction pressure setpoint
- Potential to run system at higher suction pressure set point

Change in System Design

- No need for uneven paralleling for compressor staging
- Using common compressor selections simplifies replacement needs

Standard Model Number	Digital Model Number	Refrigerant	Frequency	"Capacity (BTU/Hr)"	"Efficiency (EER)"	Amps
3D Low Temperature Models						
3DA3F28K*- ###	3DADF28K*- ###	R-404A	60	27,800	5.2	8.9
3DB3F33K*- ###	3DBDF33K*- ###	R-404A	60	33,100	5.2	10.3
3DF3F40K*- ###	3DFDF40K*- ###	R-404A	60	40,200	5.3	12.3
3DS3F46K*- ###	3DSDF46K*- ###	R-404A	60	46,000	5.4	13.4
3D Optimized Medium Temperature Models						
3DF4S11M*- ###	3DFDS11M*- ###	R-404A	60	105,000	7.6	20.3
3DS4S12M*- ###	3DSDS12M*- ###	R-404A	60	116,000	7.6	23.4
3D Dual Medium & High Temperature Models						
3DA3R10M*- ###	3DADR10M*- ###	R-404A	60	71,000	7.8	14.2
3DB3R12M*- ###	3DBDR12M*- ###	R-404A	60	85,000	7.7	16.6
3DF3R15M*- ###	3DFDR15M*- ###	R-404A	60	105,000	7.6	21.2
3DS3R17M*- ###	3DSDR17M*- ###	R-404A	60	116,000	7.6	23.4
4D Low Temperature Models						
4DA3F47K*- ###	4DADF47K*- ###	R-404A	60	47,200	5.2	15.2
4DH3F63K*- ###	4DHDF63K*- ###	R-404A	60	62,500	5.3	19.8
4DJ3F76K*- ###	4DJDF76K*- ###	R-404A	60	75,500	5.4	23.0
4D Optimized Medium Temperature Models						
4DA3S13M*- ###	4DADR18M*- ###	R-404A	60	121,000	7.6	24.4
4DH3S16M*- ###	4DHDS16M*- ###	R-404A	60	159,000	7.3	31.3
4D Dual Medium & High Temperature Models						
4DA3R18M*- ###	4DADR18M*- ###	R-404A	60	119,000	7.6	24.4
4DB3R20M*- ###	4DBDR20M*- ###	R-404A	60	145,000	7.6	29.3
4DH3R22M*- ###	4DHDR22M*- ###	R-404A	60	156,000	7.3	32.9
4DJ3R28M*- ###	4DJDR28M*- ###	R-404A	60	186,000	7.5	39.3
6D Low Temperature Models						
6DH3F93K*- ###	6DKDF93K*- ###	R-404A	60	92,500	5.3	29.6
6DJ3F11M*- ###	6DRDF11M*- ###	R-404A	60	105,000	5.0	34.6
6D Dual Medium & High Temperature Models						
6DH3R35M*- ###	6DKDR35M*- ###	R-404A	60	236,000	7.6	47.8
6DG3R37M*- ###	6DMDR37M*- ###	R-404A	60	257,000	7.5	53.1
6DJ3R40M*- ###	6DRDR40M*- ###	R-404A	60	278,000	7.3	57.6

Voltage Variations * Oil Variations

Item # _____

Job _____

Copeland®
brand products

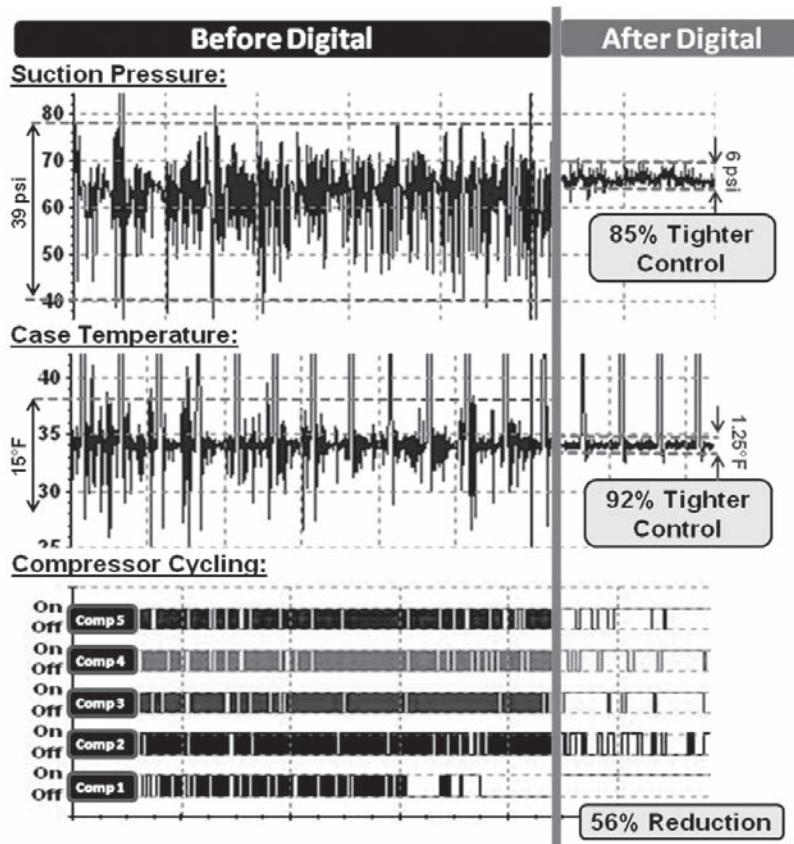
Copeland Discus Digital™ Compressors with CoreSense™ Technology

The Digital Difference

Copeland Discus® compressors have long set the standard as the most trusted name for refrigeration, leading the industry in energy efficiency and reliability for decades. Now a new application of the patented Discus valve technology includes a unique modulation approach.

In refrigeration applications, product quality is maintained by precisely controlling the temperature while minimizing energy consumption. Traditional modulation approaches that require compressor cycling can lead to problems, including uneven cooling and reduced compressor life.

With continuous, infinite digital modulation from 10 to 100 percent, Copeland Discus Digital™ compressors with CoreSense™ technology provide the most precise method of capacity control, making it ideal for temperature sensitive applications. Introducing Copeland Discus Digital™ compressors with CoreSense™ technology into a refrigeration system allows the system to specifically match the capacity being generated to the required load, providing the opportunity for the system to operate more efficiently, resulting in optimum system performance and control. The capacity modulation found in this compressor also reduces the suction pressure and temperature variation of the refrigerated space and provides a dramatic decrease in compressor cycling rates, therefore improving compressor reliability.

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