

**Quick** and **easy** installation for you  
Improved part-load efficiency for  
your customers

**Robust**

solution for you  
and your customers



The new Danfoss Universal Scroll Compressors with Intermediate Discharge Valve (IDV) technology are designed not only to serve as quick and easy replacements for most 7½ to 15 ton commercial air conditioning scroll compressors, but also to help your customers improve the part-load efficiency of their systems.

See how tomorrow's solutions are ready today.  
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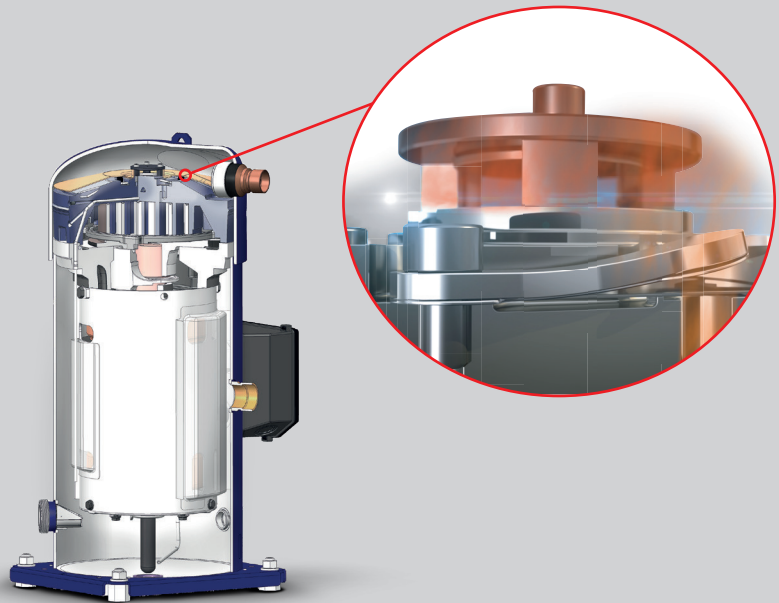
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# IDV Technology

Intermediate Discharge Valves (IDVs) are mechanical valves that improve the part-load efficiency of air conditioning systems.

The new Danfoss scroll range with IDVs is backward compatible with existing Danfoss scrolls to reduce complexity and save time during installation.



## Product Selection

Refrigerant	Nominal tonnage	Voltage/phase/frequency	Competitor model no. <sup>1</sup>		Motor protection	Net weight (lbs.)	Solder ODF connection (in.)	Solder sleeve adaptor set to Rotolock connections	OLD Danfoss Model No.	OLD Danfoss Code No. <sup>2</sup>	NEW Danfoss Model No.	NEW Danfoss Code No. <sup>2</sup>	
R410A	7½	200–230/3/60	CSHD-089J CSHD-092J	ZP90KCE-TF5 ZP91KCE-TF5	Internal Overload Protector	128	1½ × ¾	120Z0125	SH090A3AL*	120H0001	DSH090A3ALA	120H1180	
		460/3/60	CSHD-089K CSHD-092K	ZP90KCE-TFD					SH090A4AL*	120H0003	DSH090A4ALB	120H1182	
	8¾	200–230/3/60	CSHD-105J	ZP103KCE-TF5		141	141			SH105A3AL*	120H0209	DSH105A3ALA	120H1188
		460/3/60	CSHD-105K	ZP103KCE-TFD						SH105A4AL*	120H0211	DSH105A4ALB	120H1190
	10	200–230/3/60	CSHD-125J	ZP120KCE-TF5		141	141			SH120A3AL*	120H0011	DSH120A3ALA	120H1196
		460/3/60	CSHD-125K	ZP120KCE-TFD						SH120A4AL*	120H0013	DSH120A4ALB	120H1198
	11½	200–230/3/60	CSHD-142J	ZP137KCE-TF5		148	148	1½ × ¾	120Z0405	SH140A3AL*	120H0199	DSH140A3ALA	120H1204
		460/3/60	CSHD-142K	ZP137KCE-TFD						SH140A4AL*	120H0201	DSH140A4ALB	120H1206
	13½	200–230/3/60	CSHD-161J	ZP154KCE-TF5		152	152			SH161A3AL*	120H0021	DSH161A3ALA	120H1212
		460/3/60	CSHD-161K	ZP154KCE-TFD						SH161A4AL*	120H0023	DSH161A4ALB	120H1214
	15	200–230/3/60	CSHD-183J	ZP182KCE-TF5		158	158			SH184A3AL*	120H0359	DSH184A3ALA	120H1220
		460/3/60	CSHD-183K	ZP182KCE-TFD						SH184A4AL*	120H0361	DSH184A4ALB	120H1222
	20	200–230/3/60	CSHN-176J	ZP236KCE-TW5 <sup>2</sup>		24V AC 115/230V	238			SH240A3AA*	120H0289	DSH240A3AAB	120H1159
		460/3/60	CSHN-176K	ZP236KCE-TWD <sup>2</sup>		24V AC 115/230V				SH240A3AB*	120H0297	DSH240A3ABB	120H1161
	25	200–230/3/60	CSHN-250J	ZP295KCE-TW5 <sup>2</sup>		24V AC 115/230V	245	1½ × 1½	7765028	SH295A3AA*	120H0851	DSH295A3AAB	120H1163
		460/3/60	CSHN-250K	ZP295KCE-TWD <sup>2</sup>		24V AC 115/230V				SH295A3AB*	120H0853	DSH295A3ABB	120H1165
	30	200–230/3/60	CSHN-315J	ZP385KCE-TW5 <sup>2</sup>		24V AC 115/230V	351			SH295A4AA*	120H0825	DSH295A4AAB	120H1123
		460/3/60	CSHN-315K	ZP385KCE-TWD <sup>2</sup>		24V AC 115/230V				SH295A4AB*	120H0827	DSH295A4ABB	120H1125
40	200–230/3/60			24V AC 115/230V	386	1½ × 1½	120Z0504	SH380A3AA*	120H0151	DSH381A3AAA	120H1167		
	460/3/60			24V AC 115/230V				SH380A3AB*	120H0152	DSH381A3ABA	120H1169		
				24V AC 115/230V						DSH381A4AAA	120H1127		
				24V AC 115/230V						DSH381A4ABA	120H1129		
				24V AC 115/230V						DSH485A3AAA	120H1105		
				24V AC 115/230V						DSH485A4AAB	120H1131		
				24V AC 115/230V						DSH485A4ABB	120H1133		

<sup>1</sup> Competitor Model Nos. beginning "ZP" may have different footprint, suction, discharge or height compared to Danfoss Model No.

<sup>2</sup> Control voltage of external motor protection module must be checked before crossing to Danfoss Model No with 24V ac or 115/230V motor protection module.

Full range of models (refrigerant, tons, and voltage codes) available. Check Coolselector or visit our Online Datasheet Generator at [www.danfoss.com/odsg](http://www.danfoss.com/odsg).

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