



VALVES & REGULATORS

Danfoss CPCE Series

BRAND
Danfoss

SKU
RC_PROD_004

CATEGORY
Valves & Regulators



OVERVIEW

The Danfoss CPCE is a hot gas bypass regulator used to adapt compressor capacity to actual evaporator load. When system load falls, the CPCE injects hot discharge gas into the low-pressure side, preventing suction pressure — and therefore evaporating temperature — from dropping too low. The CPCE offers first-class control accuracy with direct connection to the system suction line, so hot gas injection is regulated independent of evaporator pressure drop. Injection should be carried out through a Danfoss LG liquid-gas mixer, which homogeneously mixes the injected hot gas with liquid refrigerant from the expansion valve, preventing high suction superheat.

KEY FEATURES

First-class control accuracy
for capacity adaptation

Direct suction line connection
regulation independent of evaporator pressure drop

Increased evaporator gas velocity
improving oil return to the compressor

Evaporator icing prevention
protects against too-low evaporating temperature

SPECIFICATIONS

PARAMETER	VALUE
FUNCTION	Hot gas bypass / compressor capacity regulation
REGULATION RANGE	0 – 6 bar (0 – 85 psig)
MAX. WORKING PRESSURE	28 bar (406 psig)