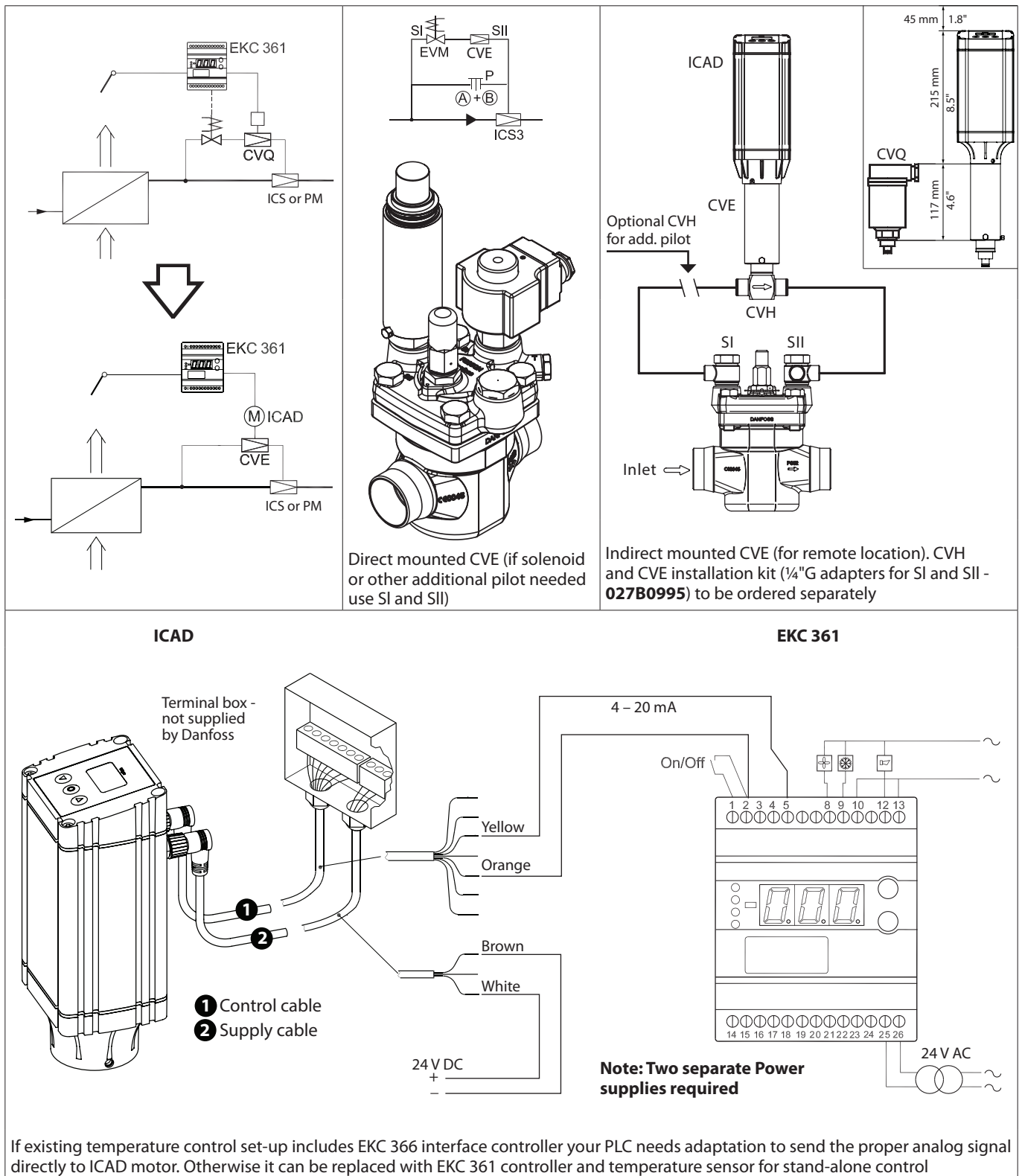


User Guide

Media temperature controller EKC 361

CVE replacement for CVQ



CVQ to CVE

027B1139	CVQ (-1 – 5 bar) (-14.5 – 72.5 psi)	is replaced by	027B0980	CVE (-0.66 – 8 bar) (-9.5 – 116 psi)
027B1140	CVQ (0 – 6 bar) (0 – 87 psi)			
027B1141	CVQ (1.7 – 8 bar) (24.5 – 116 psi)			

Note: To operate the CVE pilot an ICAD 1200 motor is needed (ordered separately) and will need powered with 24 V DC, 2 amp.

EKC 361 controller configuration

■ Parameter **n03** Actuator type:

- 1: CVQ -1 – 5 bar
- 2: CVQ 0 – 6 bar
- 3: CVQ 1.7 – 8 bar
- 4: CVMQ
- 5: KVQ
- 6: ICM/CVE

Choose **6** (ICM/CVE) instead of 1, 2 or 3:

Parameter **n32** Opening degree Max. limitation – ICM/CVE with ICAD

(When ICM/CVE has been selected (n03 = 6) the maximum opening degree % can be entered. The ICAD motor opening degree will never go above this value). For full working pressure range of the CVE pilot set n32 = 90% OD. To limit the regulating pressure range so the evaporator will not go below a certain pressure/temperature use the below table to determine what the ICAD opening degree % is for the min. evaporator pressure you want and enter that opening degree value in parameter n32.

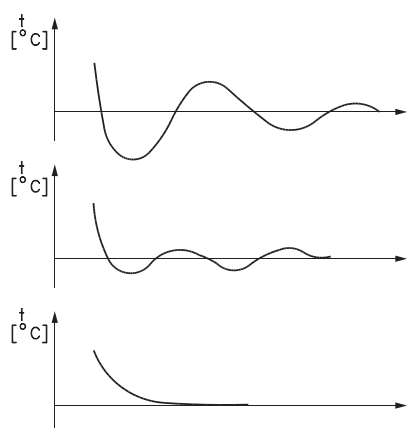
Parameter **n33** Opening degree Min. limitation – ICM/CVE with ICAD

(When ICM/CVE has been selected (n03 = 6) the minimum opening degree % can be entered. The ICAD motor opening degree will never go below this value). For full working pressure range of the CVE pilot set n33 = 23% OD. To limit the regulating pressure range so the evaporator will not go above a certain pressure/temperature use the below table to determine what the ICAD opening degree % is for the max. evaporator pressure you want and enter that opening degree value in parameter n33.

barg	-0.66	0	1	2	3	4	5	6	7	8
psig	19.5 in. Hg	0	14.5	29.0	43.5	58.0	72.5	87.0	101.5	116.0
mA	18.3	17.1	15.9	14.7	13.5	12.3	11.1	9.9	8.7	7.5
ICAD reading %	90%	83%	75%	67%	60%	53%	45%	37%	30%	23%

■ Parameter **n07** Temperature transient phenomenon: The EKC 361 controller includes 3 predefined transient phenomenon's for best adaptation to the actual plant

- **Fastest** possible cooling Setting = 1
- Cooling with **less** underswing Setting = 0
- Cooling underswing **unwanted** Setting = 2
(default value = 2)



ICAD configuration

Parameter ;26 Valve type:

Choose 10, CVE pilot with ICAD 1200A (see Quick start guide ICAD)

Note: Parameter ;26 is password protected so a password of 11 will need entered into parameter ;10 to be able to view and make changes to it.