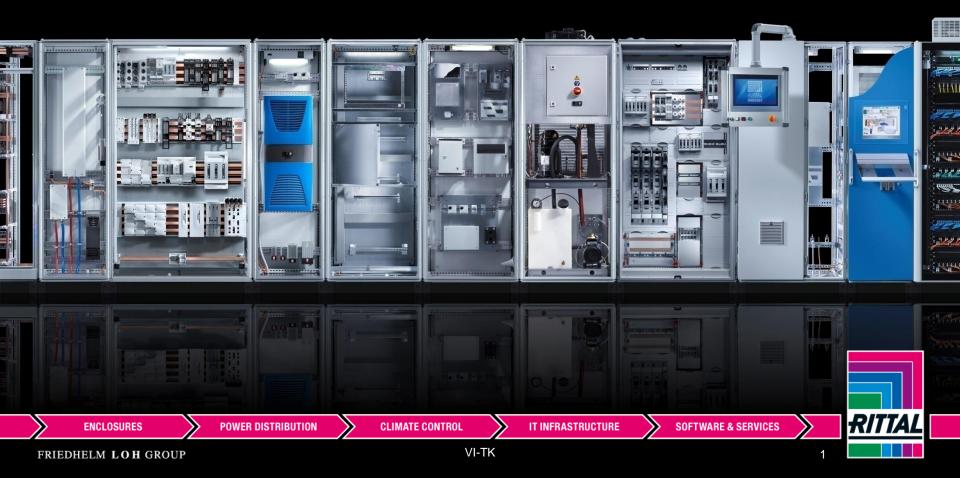


Faster – better – everywhere.

CS9750.915 Multifunctional Cabinet MFC 15



MFC 15 - CS9750.915

- application outdoor
- field of application FTTC, FTTH

double walled outdoor cabinet suitable for outdoor siting

material surface dimension protection category protection against burglar 2,0 mm Aluminium (AIMg3) powder coated (pure polyester) WHD 1700x1450x500 mm, 22 RU IP 55 according to EN 60 529/10.91 up to RC 2 (resistance class), according to DIN EN V 1630: 1999-04



- side panels, rear panel, 2x door, double walled, mechanical door adjustment (approx. angel of aperture 155°)
- · doors with 3 pt locking system and dual or single cylinder swinghandle
- plinth for cable management H = 250mm
- · prepaired to install two climat options HEX or DAC
- rain canopy with air outlet system, H = 130 mm
- 1x ETSI or 19" mounting angle
- · bottom plate with grommets
- 1x center bar welded
- MDF section up to five rows

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ENCLOSURES

CLIMATE CONTROL

IT INFRASTRUCTURE

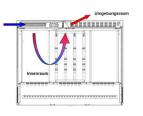
SUP I WARE &

FRIEDHELM LOH GROUP

climatisation

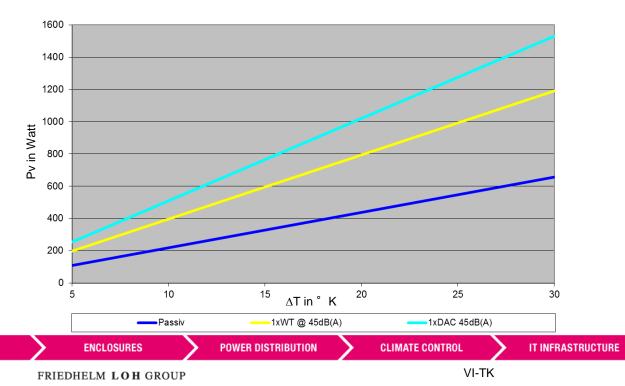


air to air heat exchanger 25 W/K operating voltage: 48 V DC temperature range: -20 ° C to +75° C temperature control : NTC-sensor



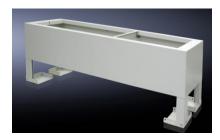
direct air cooling 100 W/K

operating voltage : 48 V DC temperature range : -33 ° C to +70 ° C temperature control : Microcontroller



interior installation

- 48 V / DC power supply unit
- electrical power supply
- heater kit 230 V/ 800 W
- sensors (door alarm, temperature ...)
- lighting



underground plinth

- material stainless steel 1.4016
- surface RAL pur polyester
- dimension CS9765.251 RAL7038 BHT 1700x660x500mm

colours

- pure polyester UV- resistance
- optional with Anti-Graffiti Effect
- RAL 7038 optional RAL7035, 6009

SOFTWARE & SERVICES



3

CS9760.327 Air / Air Heat Exchanger

Air / Air Heat Exchanger to use at MFC8/12/15/18 outdoor cabinets

Mounting position: Roof Dimensions: WxHxD= 930 x 130 x 280 mm Spec. cooling capacity: up to 49 W/K at MFC 18 Supply voltage: 48 V DC Temperature range: -33 °C bis +75°C Protection class (external- to internal circuit): IP 54 Protection class (Heat Exchanger to MFC): IP55 Temperature control: Microcontroller with USB- Connection Fan speed curve settable via Software Connection: 12pol. Wago connector part of the delivery. Material (Housing): Aluminium Surface: painted RAL 7035

Verbindung Herstellerangaben Konfiguration Lüfter Ausgänge Fehlerspeicher

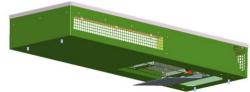
Innenfüfter -1: Henn-Drehzahl: 2000 1/2 [1/min] Pulse/Umdrehungen: 3 1 Innenfüfter -2:	Aussenlüfter -1: Neno-Drehzahl: 1900 1 [1/min] Polse/Umdrehungen: 3 1 Aussenlüfter -2:	Fehier	Alarm 1	Alarm 2	Alarm 3	E LED	Störuna
Hann-Drahgaid: 3000 🌠 (1/min)	Nam-Drahzatti 3900 32 (1/mm)	Temp-Fühler-Innen defekt	F	P	Г	Г	Γ.
Pulse/Umdrehungen: 2 *	Pulse/Umdrahungen: 3 +	Temp-Fühler-Aussen, deflekt	Γ.	17	Π.	E.	Γ.
sometomorenisten b	sense sense and a set	Innenkifter -1 defekt	V	Γ.	F	F	Γ.
Fehler-Erkennung: 30 34 [%] der Ist-Drehzahl	Fehler-Erkennung: 30 🎲 (%) der 1st-Drehzahl	Innenkifter -2 dofekt	17	1	Γ.	Г	1
sense presenter las Sel Call de Donatoni	tene circularly how a full on a consistent	Aussenküfter -1 defekt	V	17	F	F	E
Gennlinie		Aussenkifter -2. defekt	17	Γ.	Γ.	Г	Г
Temperatur Drehzahl	Temperatur Drehzahl	Feuclite Fühler defekt	Г	Γ.	г	Г	Γ.
T4: 70 % [9C] D4: 100 % [%]	T4: T2 S2 [10] D4: 100 S2 [%] T3: 70 S2 [%] D3: 67 S3 [%]	Hetting defekt Binäre Eingänge	r	٣	г	Г	Г
	T2: 65 % [*C] 02: 56 % [%]	Türkontakt aktiv	Г.	Г	F .	F	Г
		Endschalter -1 aktiv	Γ.	F	F	F	F
		Endschalter -2 aktiv	Γ.	E.	F	Г	F
T0: 30 🔄 [°C]	TO: 30 10[PC]	ext. Alarm -1 aktiv	Γ.	Γ.	Г	Г	C
	the second se	ext. Alarm -2 aktiv	Γ.	Γ.	F	F	-
100 %	100 %	Temp-Oberwachung:					
41%	¥ 60 %	Innen-Temp > 72 [°C]	Г	R	Г	F	Г
	40% 20%	Innen-Temp < 0 [°C]	Г	P	Г	Г	Г
22 %	- 20%	Feachte > 0 [% RH]	Г	17	г	г	Г
			г	Г	Γ.	Γ.	Г
-40 °C -20 °C 0 °C 20 °C 40 °C 60 °C 80 °C Temperatur	0 °C 20 °C 40 °C 60 °C 80 °C Temperatur		Γ.	E.	Γ.	Г	Г

Linkar Composition P	Hoterary
	Г
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Aussister 2 data P	E
	E
Bissing divides F	E
Bindre Einschnet F	F
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Танколайс акоу Г Г Г Г Г Г Р Г Р Г Р Г Endschafter - 1 akoy Г Г Г Г Г Г Г Г Г Г Г Endschafter - 2 akoy Г Г Г Г Г Г Г Г Г Г Г Г ext. Alimn - 3 akoy Г Г Г Г Г Г Г Г Г Г Г Г Г Г Г Г Г Г Г	
Endschatter - 1 aktiv	Г
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	Ē
ext. Alarm-2 akty E E E E E E E E E E	E
Temp-Oberwachung:	2
	17 [°C

CS9760.342 Direct Air Cooler - DAC

Direct Air Cooling System DAC to use at MFC8/12/15/18 outdoor cabinets

Mounting Position: Roof Dimensions: WxHxD= 875 x 125 x 314 mm Spec. cooling capacity: up to 100 W/K Supply Voltage: 48 V DC Temperature range: -33 °C bis +75°C Protection class (external- to internal circuit): IP 54 Protection class (DAC to MFC): IP55 Temperature control: Microcontroller with USB- Connection Fan speed curve and alarm settable via Software Connection: 12pol. Wago Connector part of the delivery Material (Housing): Aluminium Surface: painted RAL 7035



S200 *** NEUE KONFIGURATION***	CS200 *** NEUE KONFIGURATIO	Next								
i Wärmetauscher Zustand	Datei Warmetauscher Zosta	nd .								
bindung Herstellerangaben Konfiguration Lüf	Verbindung Herstellerangaben Konfiguration Lüfter Ausgänge									
Innenlüfter - 1: Henn-Drehzahl: 4000 34 [1/min] Pulse/Umdrehungen: 2 -		Alarm 1	Alarm 2	Alarm 3	tED	Sidnung	100 firmonkiliter	2 Innentities	Allasantan, 10	2 Autssenhaft.
Innenlüfter -2: Nenn-Drehzahl: 2000 🔀 [1/min] Pulse/Umdrehungen: 2 💌	Fehler Temp-Fühler-Innen defekt Temp-Fühler Aussen defekt Innenlüfter -1 defekt	BLL				BLBL	B LL		ГГГ	
Fehler-Erkennung: 30 🔀 [%] der Ist-Drehzahl	Innenkulter 2 defekt Aussenülter -1 defekt Aussenülter -2 defekt Fauchte Fühler dafokt		LELE		LLL				LLLL	LLLL
Temperatur Drehzahl T4: 75 52 [Fec] 04: 100 52 [Fec] T3: 50 52 [Fec] 03: 80 52 [Fec] T2: 25 52 [Fec] 02: 60 52 [Fec] T1: 20 52 [Fec] 01: 45 52 [Fec]	Heaung Odekt Binare Eingange Türkontakt aktiv Endschater -1 aktiv Endschater -2 aktiv axt. Aktim -1 aktiv			L DDDD			-			
T0: 10 % [°C]	ext. Alarm -2 aktiv <u>Temp-Oberwachung:</u>	F	Г				0	0	Г	F
2 80 % E 60 %	Innen-Temp > 55 [°C] Innen-Temp < 5 [°C]	1 4 4	E	E	E E	1 1 1	-	E	Г Г	EEE
0%	Feichte > 0 [%RH] Tarrp-Innen > Terrp-Aussen Terrp-Aussen >Terrp-Innen	LE	F	F	LL	EE	E	LL	L L	E
-40°C -28°C 0°C 20°C 40°C 60°C 88°C Temperatur										

Pic.: Software for configuration

IT INFRASTRUCTURE



Pict.: Software for configuration



VI-TK

Datei Verb

SOFTWARE & SERVICES

CS9750.915

