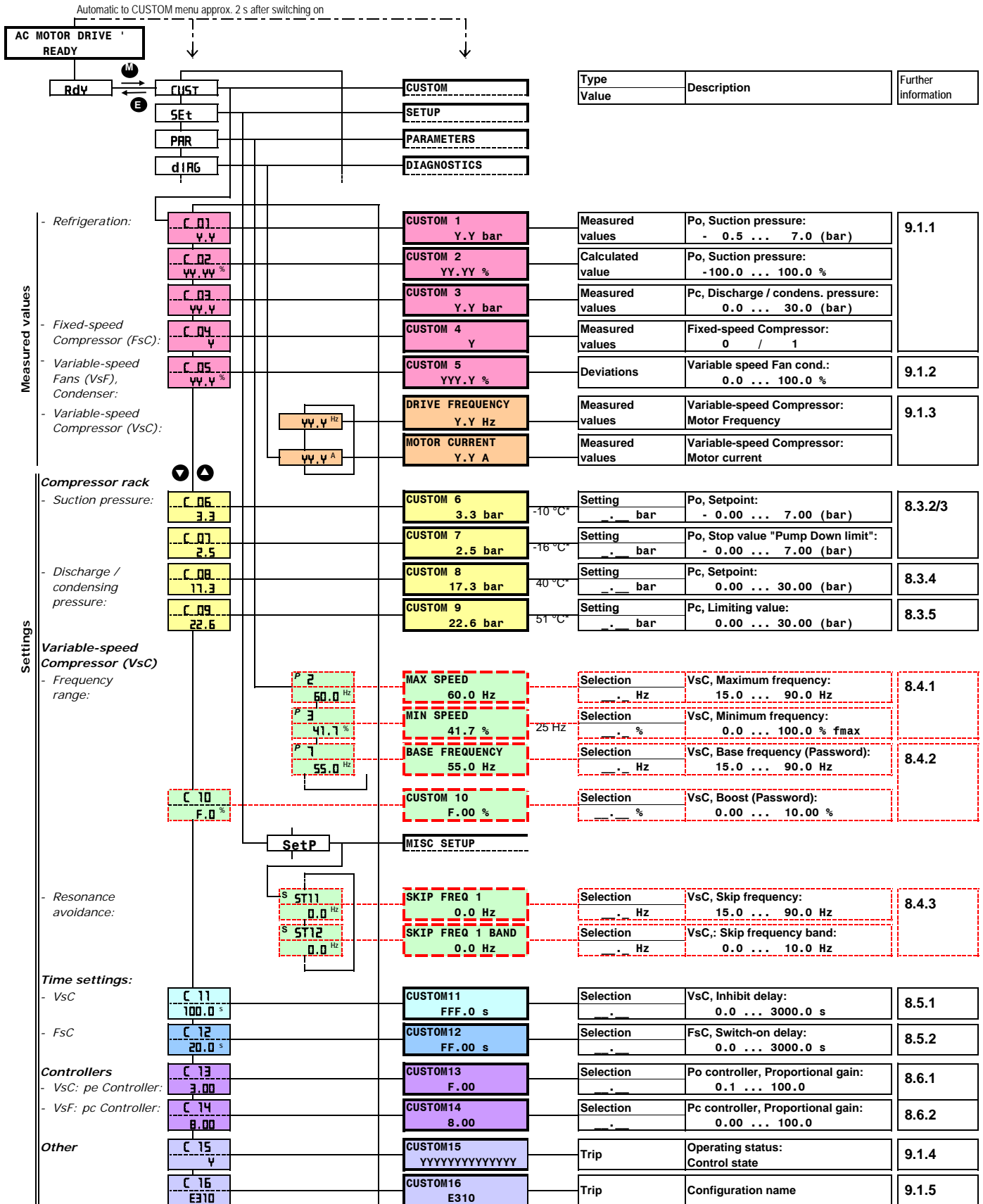


## PARAMETER LIST

FPE FMV/FEV-14 / iSE RCF  
FrigoSoft E3

REFR

FS E3.2-1x



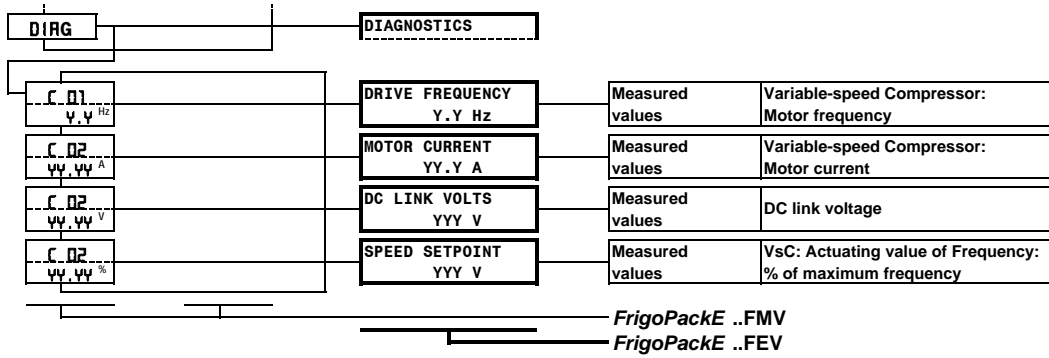
FrigoPackE ..FMV  
FrigoPackE ..FEV

Password required (Please enquire)

Key for abbreviations	
VsC:	Variable-speed Compressor
FsC:	Fixed-speed Compressor
VsF:	Variable-speed fans (Condenser / Dry cooler)

\* Factory setting for R404A

= YYY.YY % Measured value depending on operating point  
→ FFF.F s Factory default value depending on frame size and rated power



**Suggested refrigeration settings:**

Based on EN 12900

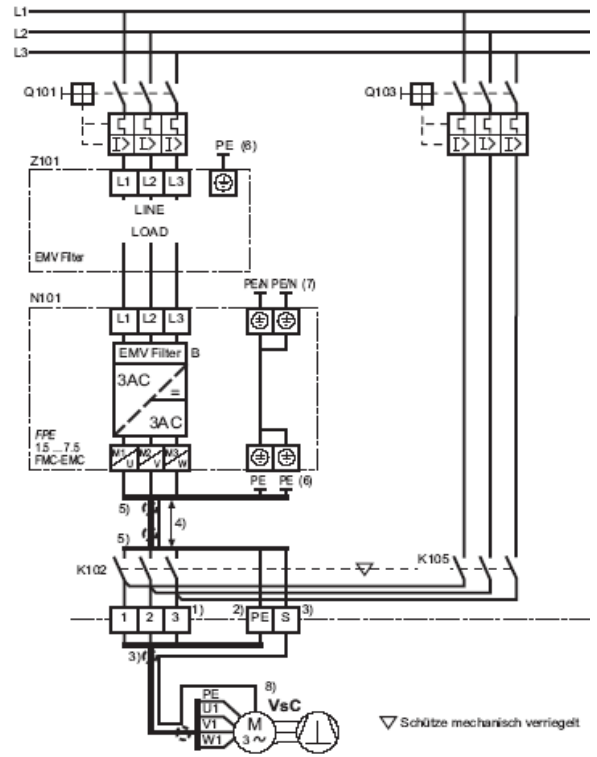
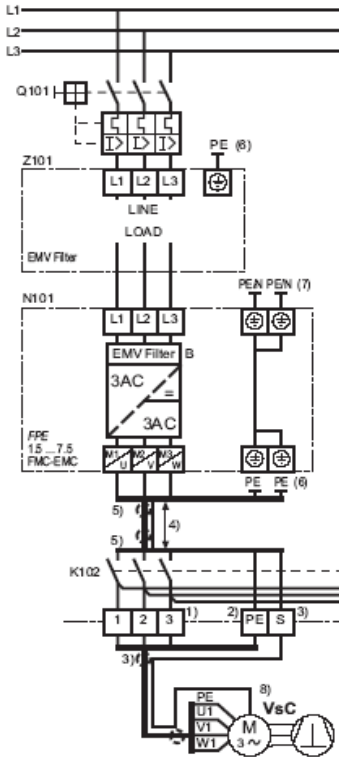
C.06 3.3	CUSTOM 6 3.3 bar
C.07 2.5	CUSTOM 7 2.5 bar
C.08 17.3	CUSTOM 8 17.3 bar
C.09 22.6	CUSTOM 9 22.6 bar

	R404A/R507A			R407C		R22			R134a		
	LT	MT	HT	MT	HT	LT	MT	HT	MT	HT	
to	-35	<u>-10</u>	+ 5	-10	+ 5	-32	-10	+ 5	-10	+ 5	[ °C ]
tol	-40	-16	0	-16	0	-37	-16	0	-16	0	[ °C ]
tc	<u>+40...48</u>	<u>+40...48</u>	<u>+40...48</u>	<u>+40...48</u>	<u>+40...48</u>	<u>+40...48</u>	<u>+40...48</u>	<u>+40...48</u>	<u>+40...50</u>	<u>+40...50</u>	[ °C ]
tch	<u>+51</u>	<u>+51</u>	<u>+51</u>	<u>+52</u>	<u>+52</u>	<u>+52</u>	<u>+52</u>	<u>+52</u>	<u>+55</u>	<u>+55</u>	[ °C ]
	0.6	<u>3.3</u>	6.0	2.2	4.5	0.5	2.5	4.8	1.0	2.5	[ bar ]
	0.3	<u>2.5</u>	5.0	1.5	3.6	0.2	1.9	4.0	0.6	1.9	[ bar ]
	<u>17.3</u>	<u>17.3</u>	<u>17.3</u>	16.5	16.5	14.3	14.3	14.3	9.2	9.2	[ bar ]
	<u>22.6</u>	<u>22.6</u>	<u>22.6</u>	22.2	22.2	19.3	19.3	19.3	13.9	13.9	[ bar ]

Factory setting R404A

**POWER SECTION**

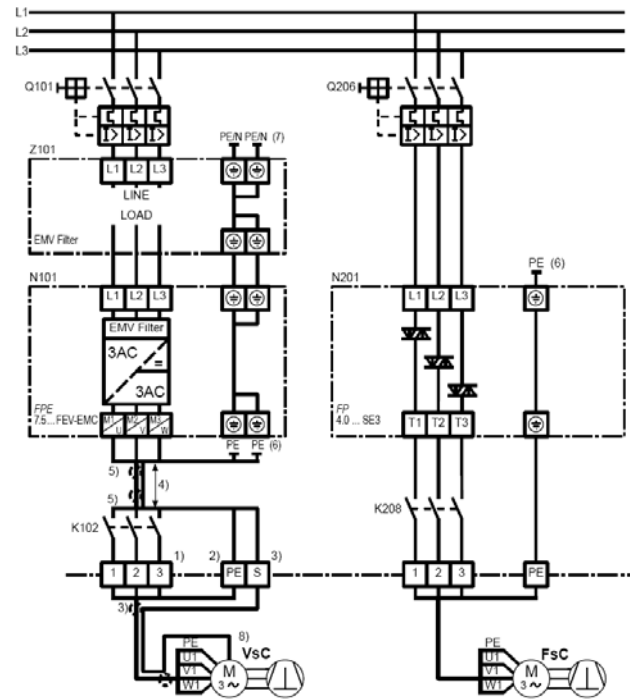
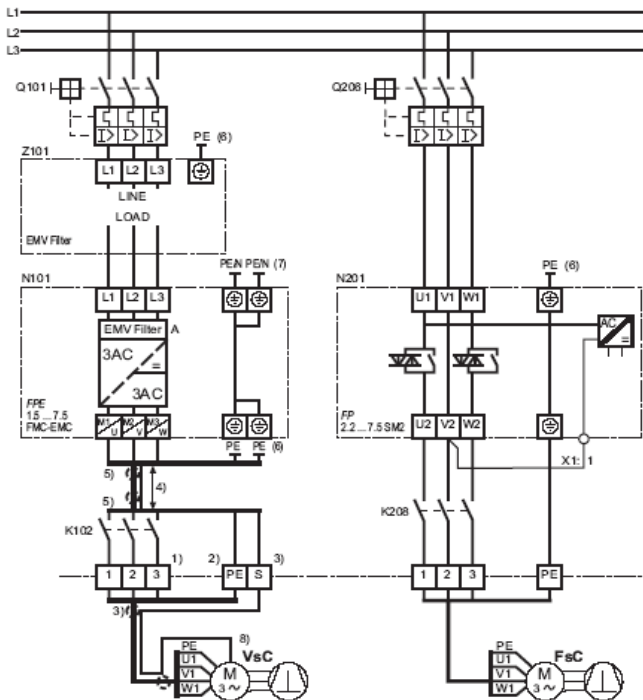
**Power connections**



▽ Schütze mechanisch verriegelt

**FrigoPackE 1.5 ... 7.5FMV:  
Power wiring**

**FrigoPackE 1.5 ... 7.5FMV:  
Power wiring  
(with bypass for Emergency Operation)**



**FrigoPackE 1.5 ... 7.5FMV:  
Power wiring with two compressors**

**FrigoPackE 7.5 ... 15FEV:  
Power wiring with two compressors**

## Power terminals

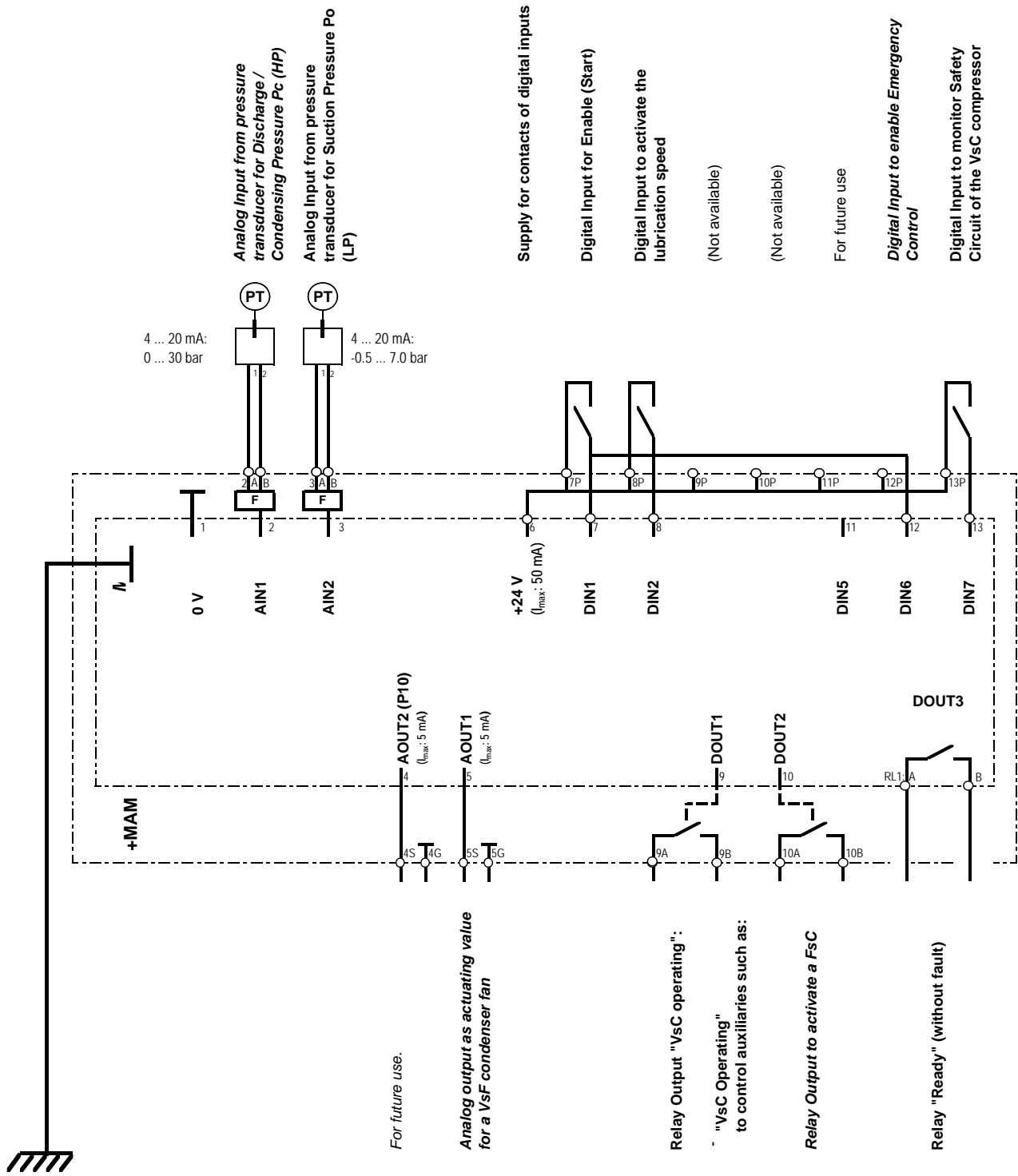
Terminal / Designation	Signal / Function	Explanation	Further information
PE, PE	<b>Protective earth connections (both to be earthed)</b>	- Observe all safety and EMC requirements	7.7.1
L1 L2/N L3	<b>Three phases of voltage supply</b>	- Ensure that supply voltage agrees with data on FrigoPack / iSpeed name plate	
DC+ DBR (DC-)		- Do not use otherwise risk of damage to FrigoPack / iSpeed	
M1/U M2/V M3/W	<b>Compressor motor</b>	- Variable-speed Compressor via safety contactor	7.7.1/ 7.7.2
PE	<b>Protective earth connection to compressor motor</b>		7.7.2
(DBR+) (DBR-)		- Do not use otherwise risk of damage to FrigoPack / iSpeed	

## Terminals for motor protection

Terminal / Designation	Signal / Function	Explanation	Further information
<b>X2:</b>			
FPE 1.5...7.5FMV- EMC: TH1A-TH1B;  FPE 7.5...15FEV- EMC: MOT/TEMP	<b>Alternative a), Without processing:</b>	- Thermistor protection is processed in safety circuit, these two terminals must be linked	6.2
	<b>Alternative b), Direct processing of motor thermistors:</b>	- Connect motor thermistors between these two terminals	
	<b>Alternative c), Processing an external thermistor relay:</b>	- Connect the "normally open" contacts of external thermistor relay (e.g. KRIWAN) between these two terminals	
	<b>Alternative d), Processing an external thermistor relay:</b>	- Connect the "Normally open" contacts of an auxiliary relay wired to an external thermistor relay (e.g. KRIWAN) between these two terminals.	

# CONTROL SECTION

## Control connections



Analog Input from pressure transducer for Discharge / Condensing Pressure Pc (HP)

Analog Input from pressure transducer for Suction Pressure Po (LP)

Supply for contacts of digital inputs

Digital Input for Enable (Start)

Digital Input to activate the lubrication speed

(Not available)

(Not available)

For future use

Digital Input to enable Emergency Control

Digital Input to monitor Safety Circuit of the VsC compressor

VsF: Variable-speed fan (condenser)

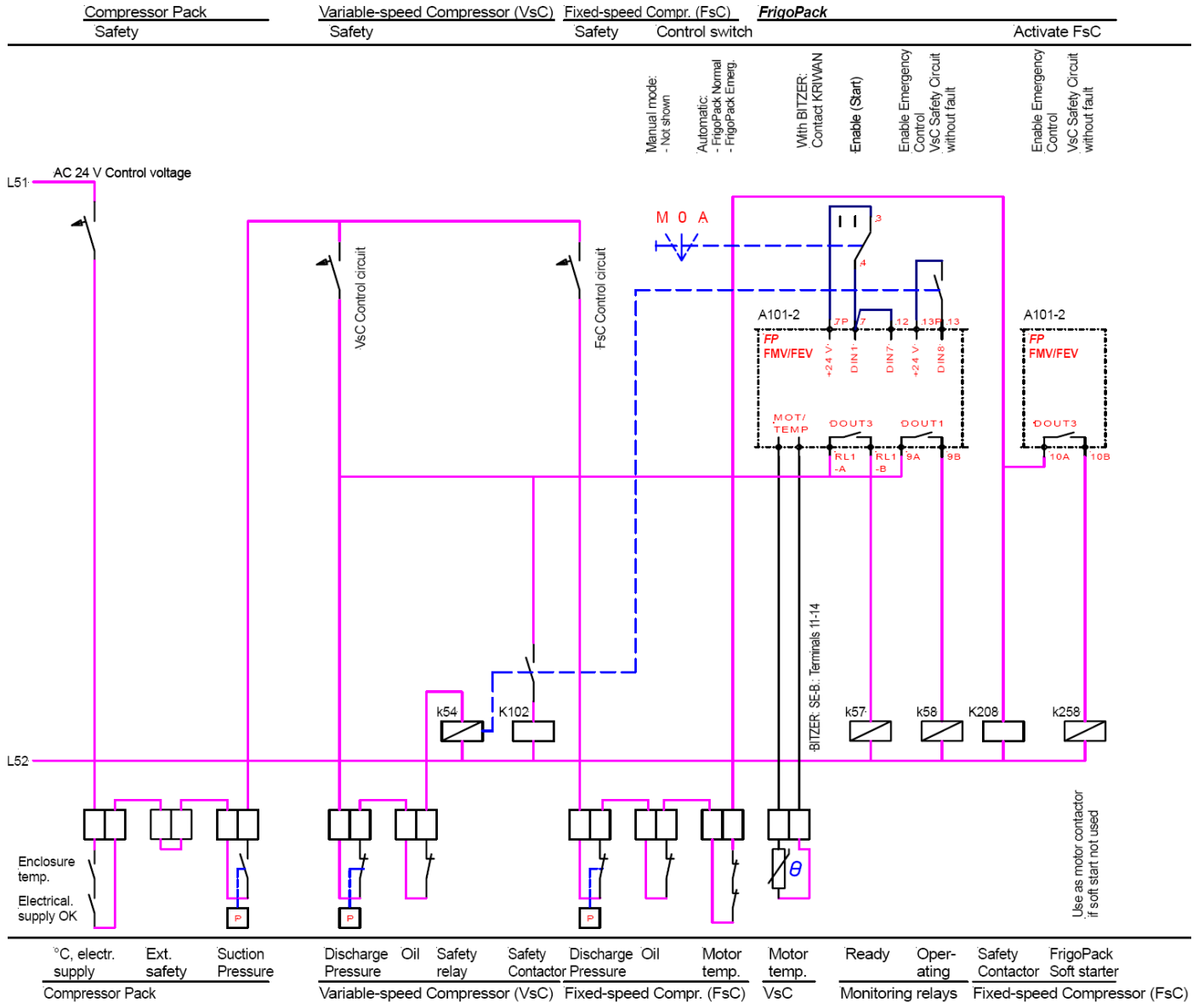
VsC: Variable-speed Compressor (Inverter operation)  
FsC: Fixed-speed Compressor

## Terminals for control functions

Terminal / Designation	Signal / Function	Explanation	Further information
1	0 V	Ground for analog signals	
2A - 2B	AIN1	<b>Analog Input from pressure transducer for Discharge / Condensing Pressure Pc (HP):</b> 0 mA: <b>Fault</b> 4 mA: <b>0.0 bar</b> 20 mA: <b>+30.0 bar</b>	- Not available - Discharge / condens. pressure Pc (HP), optional use - Suitable pressure transducer: - A REF-P-TRANSD-HP25+PL - Connections: - 1 --> 2A; 2 --> 2B 7.7.4
3A - 3B	AIN2	<b>Analog Input from pressure transducer for Suction Pressure Po (LP):</b> 0 mA: <b>Fault</b> 4 mA: <b>-0.5 bar</b> 20 mA: <b>+7.0 bar</b>	- Suction pressure Po(LP), must be used - Suitable pressure transducer: - A REF-P-TRANSD-LP7+PL - Connections: - 1 --> 3A; 2 --> 3B 7.7.4
4S - 4G	P10	Internal +10 V reference	- Do not use
5S - 5G	AOUT1	<b>Analog output as actuating value for a VsF condenser fan:</b> 0 V: <b>0.00 % Actuating value</b> +10 V: <b>100.00 % Actuating value</b>	- VsF Condenser fan, actuating value - 5 mA max. load 7.7.3
6	+24 V	Supply for contacts of digital inputs	- Not available
7P - 7	DIN1	<b>Digital Input for Enable (Start):</b> 0 V: <b>Stop</b> +24 V: <b>Enable</b>	- Enable / Start 5.2.1-3, 7.7.3
8P - 8	DIN2	<b>Digital Input to activate the lubrication speed:</b> 0 V: <b>No action</b> +24 V: <b>Activated</b>	- Force to Lubrication Speed - Optional use 5.2.2/3, 7.7.3
9P - 9	DIN3	Digital Input	- Not available
9A - 9B	DOUT1	<b>Relay Output "VsC operating":</b> Open: <b>VsC: Inhibited / Not operating</b> Closed: <b>VsC: Starting / Operating</b>	- "Operating" to control auxiliaries such as: Crankcase heater, Condenser fan, Start unloader - Max contact load: AC 230 V; 250 VA 7.7.3
10P - 10	DIN4	Digital Input	- Not available
10A - 10B	DOUT2	<b>Relay Output to activate a FsC:</b> Open: <b>Not activated</b> Closed: <b>Activated</b>	- Activate FsC Fixed-speed Compressor - Max contact load: AC 230 V; 250 VA 7.7.3
11P - 11	DIN5	For future use: 0 V: +24 V:	
12P - 12	DIN6	<b>Digital Input to enable Emergency Control:</b> 0 V: <b>No Emergency Control</b> +24 V: <b>Enable Emergency Control</b>	- Emergency operation (Operation with a defect inverter) - Optional use 5.3, 7.7.3
13P - 13	DIN7	<b>Digital Input to monitor Safety Circuit of the VsC compressor:</b> 0 V: <b>Fault</b> +24 V: <b>Without fault</b>	- Safety circuit without fault - Must be used - Interrupt if there is a fault (Required to stop inverter operation) 5.4, 7.7.3
RL 1A - RL 1B	DOUT3	<b>Relay output "Ready" (without fault):</b> Open: <b>No supply, fault or alarm</b> Closed: <b>Ready (no fault)</b>	- Ready to operate - Max contact load: AC 230 V; 250 VA 5.4, 7.7.3

**VsC:** Variable-speed Compressor (Inverter operation)  
**FsC:** Fixed-speed Compressor  
**VsF:** Variable-speed fan (condenser)

### Safety and control circuits



#### Important note:

This simplified overview of the safety and control wiring of a typical system only includes the wiring for AUTOMATIC operation.

It is recommended that the following additional functions are included in the control system:

- MANUAL mode of operation using a "Pump Down" circuit
- A security circuit to provide:
  - Automatic selection of MANUAL operation in an emergency
  - Means of stopping the evaporators if compressors are not available.
- Standard suggestions for the safety and control wiring with these features are available on request.
- KIMO RHVAC can assist with the planning of complex systems or systems with special requirements.

## TROUBLE SHOOTING LIST

PROBLEM	POSSIBLE CAUSE	Hints for fault finding	REMEDIES
<p>*** TRIPPED *** OVERVOLTAGE</p> <p>↑FEV FMV → dCH I</p>	<ul style="list-style-type: none"> <li>* Voltage of supply too high</li> <li>* Safety contactor not controlled correctly</li> <li>* Compressor motor defect</li> </ul>	<ul style="list-style-type: none"> <li>- Measure and document the voltage in all three input phases</li> <li>- Check wiring of control circuit and compare function with KIMO RHVAC recommendations</li> <li>- Test if compressor motor will run with DOL supply</li> <li>- Measure resistance of motor winding and compare with manufacturer's data</li> <li>- Check insulation between phases and to earth</li> </ul>	<ul style="list-style-type: none"> <li>- Rectify cause of any high voltage</li> <li>- Modify wiring</li> <li>- Replace compressor motor</li> </ul>
<p>*** TRIPPED *** OVERVOLTAGE</p> <p>*** TRIPPED *** OVERCURRENT</p> <p>*** TRIPPED *** DESAT (OVER I)</p> <p>↑FEV FMV → dCLO</p> <p>OC</p> <p>FMV → SHtE</p>	<ul style="list-style-type: none"> <li>* Voltage of supply too low</li> <li>* Phase of supply voltage missing</li> <li>* Safety contactor not controlled correctly</li> <li>* Compressor motor defect</li> <li>* Power</li> <li>* Incorrect motor connection</li> </ul>	<ul style="list-style-type: none"> <li>- Measure and document the voltage in all three input phases</li> <li>- Check wiring of control circuit and compare function with KIMO RHVAC recommendations</li> <li>- Test if compressor motor will run with DOL supply</li> <li>- Measure resistance of motor winding and compare with manufacturer's data</li> <li>- Check insulation between phases and to earth</li> <li>- Rem</li> <li>- Check if operation of FrigoPack / iSpeed without a motor connection</li> <li>- Test for operation with a small test motor</li> <li>- Check wiring to motor terminals (choice of star/delta, part winding etc.)</li> </ul>	<ul style="list-style-type: none"> <li>- Rectify cause of any low voltage</li> <li>- Modify wiring</li> <li>- Replace compressor motor</li> <li>- Replace FrigoPack / iSpeed</li> <li>- Modify wiring</li> </ul>
<p>*** TRIPPED *** EXTERNAL TRIP</p> <p>↑FEV FMV → Et</p>	<ul style="list-style-type: none"> <li>* Safety contactor not controlled correctly</li> <li>* Safety device in safety circuit tripped</li> <li>* DC 24 V control voltage missing</li> </ul>	<ul style="list-style-type: none"> <li>- Check wiring of control circuit and compare function with KIMO RHVAC recommendations</li> <li>- Check safety circuits</li> <li>- Check DC 24 V control voltage at FrigoPack / iSpeed</li> <li>- Short circuit with DC 24 V control voltage</li> </ul>	<ul style="list-style-type: none"> <li>- Modify wiring</li> <li>- Reset if necessary</li> <li>- Modify wiring</li> </ul>
<p>*** TRIPPED *** CURRENT LOOP</p> <p>↑FEV FMV → LOOP</p>	<ul style="list-style-type: none"> <li>* Suction-pressure transducer not connected or connections swapped</li> <li>* Transducer for suction pressure faulty</li> </ul>	<ul style="list-style-type: none"> <li>- Check if blue LED at the input of FrigoPack / iSpeed lights</li> <li>- Measure current from transducer for suction pressure at input to FrigoPack / iSpeed (must be at least +4 mA)</li> </ul>	<ul style="list-style-type: none"> <li>- Verify correct connection to transducer for suction pressure. Exchange leads if necessary</li> <li>- Replace transducer for suction pressure</li> </ul>
<p>*** TRIPPED *** INVERSE TIME</p> <p>↑FEV FMV → It</p>	<ul style="list-style-type: none"> <li>* Compressor start aborted</li> </ul>	<ul style="list-style-type: none"> <li>- Liquid refrigerant in compressor?</li> <li>- Defect compressor</li> <li>- Unsuitable FrigoPack / iSpeed settings</li> </ul>	<ul style="list-style-type: none"> <li>- Contact KIMO RHVAC for advice</li> </ul>
<p>*** TRIPPED *** MOTOR OVERTEMP</p> <p>↑FEV FMV → Ot</p>	<ul style="list-style-type: none"> <li>* Link TH1A-TH1B or MOT/TEMP missing</li> <li>* No connection to motor protection PTC</li> <li>* Faulty connection to external PTC relay</li> <li>* Motor winding too hot</li> </ul>	<ul style="list-style-type: none"> <li>- Check wiring of control circuit and compare function recommendations</li> <li>- Compressor overloaded</li> </ul>	<ul style="list-style-type: none"> <li>- Modify wiring</li> <li>- Contact KIMO RHVAC for advice</li> </ul>
<p>*** TRIPPED *** ?ANYTHING ELSE?</p>	<ul style="list-style-type: none"> <li>* Anything else</li> </ul>		<ul style="list-style-type: none"> <li>- Contact KIMO RHVAC for advice</li> </ul>

### Important note:

These messages are of common trips likely to occur during commissioning. Other trip messages can occur in fault conditions.

When requesting advice from your supplier, always make an exact note of the following:

- Exact trip message (with FPE FEV message indicated in both lines of display)
- Message displayed when key 'E' is pressed for at least 10 s.



### CHECKLIST AND ADDITIONAL DATA FOR PROBLEM REPORT

KIMO Problem Code	Part of installation	Checklist of questions for PROBLEM REPORT	Explanation	Terminals	Answer/ Confirmation
ES	Electrical: - Supply	<ul style="list-style-type: none"> <li>Are there any known power supply interruptions ?</li> <li>Do these power supply interruptions occur at the same time each day ?</li> <li>By what amount does the supply voltage vary ?</li> </ul>	<ul style="list-style-type: none"> <li>Indicate approx. times</li> <li>Indicate min. and max. voltages</li> </ul>		Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> When: _____ _____ Min.: _____ [V] Max.: _____ [V]
EI	- Installation	<ul style="list-style-type: none"> <li>Motor cable: Approx. Length ?</li> <li>Motor cable: Type of screen ?</li> <li>Motor cable: Screen connected to mounting plate?</li> <li>Motor cable: Screen connected to metal motor housing ?</li> <li>Is a galvanised mounting plate used in the electrical enclosure ?</li> <li>Is a motor filter used between the FrigoPack / iSpeed and the compressor motor ?</li> </ul>	<ul style="list-style-type: none"> <li>Copper braid ?, Steel braid ?,</li> <li>Steel conduit ?, none ?</li> <li>Recommendations: - Contact with large surface area</li> <li>Make sure no "pig tails"</li> <li>If yes, indicate KIMO product code</li> </ul>		_____ Cu brd. <input type="checkbox"/> Fe brd. <input type="checkbox"/> Fe cond. <input type="checkbox"/> None <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Pr. Cde: _____
MT	Compres	<ul style="list-style-type: none"> <li>Have motor currents been entered into the PROBLEM</li> </ul>	<ul style="list-style-type: none"> <li>Operating point</li> <li>Start up</li> </ul>		Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>
MM MM CI	FrigoPack: - Control and sensor	<ul style="list-style-type: none"> <li>Protective Earth of FrigoPack / iSpeed connected to mc</li> <li>Is the DC P24 control voltage present ?</li> <li>Connection of PTC motor protection ?</li> <li>Safety circuit OK ?</li> <li>Enable signal present ?</li> <li>Signal from suction-pressure transducer present ?</li> <li>Signal from high-pressure transducer present ? *</li> <li>* If used</li> </ul>	<ul style="list-style-type: none"> <li>Terminal:</li> <li>Terminal:</li> <li>Without processing</li> <li>Direct processing of motor</li> <li>Processing an external</li> <li>Terminal FPE FMV:</li> <li>Terminal FPE FEV:</li> <li>Terminals for measuring:</li> <li>Terminals for measuring:</li> <li>Terminals for measuring:</li> <li>Terminals for measuring:</li> <li>Terminal for measuring:</li> <li>Measured against:</li> </ul>	2x PE  9P - PE  TH1A-TH1B MOT/TEMP 13 - PE 7 - PE 3B - PE 2B - PE .. ..	Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Linked <input type="checkbox"/> Direkt <input type="checkbox"/> Relay <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> _____ [V] _____ [V]
MM PS	- Power section	<ul style="list-style-type: none"> <li>Reserved for future use</li> </ul>			
MM CA	- Control assembly	<ul style="list-style-type: none"> <li>Reserved for future use</li> </ul>			
MM CS	- Control settings, parameter	<ul style="list-style-type: none"> <li>Operating Mode LOCAL (Programming Pad: LEDs SEQ + REF light) ?</li> <li>Refrigeration / cooling parameters set ?</li> </ul>	<ul style="list-style-type: none"> <li>Not suitable for normal operation, only use for commissioning:</li> <li>The following parameters must be set: <b>904:, 905:, 906</b></li> </ul>		Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>
RI AP	Refrigeration: - Application	<ul style="list-style-type: none"> <li>Required Refrigeration Power entered into PROBLEM REPORT ?</li> <li>Number of cooling outputs entered into the PROBLEM REPORT ?</li> <li>Operating pressure and temperatures entered into PROBLEM REPORT ?</li> <li>On/Off times of compressor pack entered into PROBLEM REPORT ?</li> </ul>	<ul style="list-style-type: none"> <li>Operating point</li> <li>At start up</li> <li>Enter variable and fixed speed compressor times separately</li> </ul>		Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>
RI IN	- Installation	<ul style="list-style-type: none"> <li>Reserved for future use</li> </ul>	- tbd		
RI PS	- Pressure transducers	<ul style="list-style-type: none"> <li>Approx. cable length</li> <li>Type of screen</li> <li>Screen NOT connected at sensor end ?</li> <li>Screen connected to mounting plate of electrical enclosure ?</li> <li>Are measured pressures stable ?</li> </ul>	<ul style="list-style-type: none"> <li>Copper braid ?, Steel braid ?,</li> <li>Steel conduit ?, none ?</li> <li>Large area contact, no pig tails</li> <li>Indicate range of variation within 30 s</li> </ul>		_____ [m] Cu brd. <input type="checkbox"/> Fe brd. <input type="checkbox"/> Fe cond. <input type="checkbox"/> None <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> pe/LP _____ pc/HP _____ [bar]
RI RC	- Refrigeration compressor	<ul style="list-style-type: none"> <li>Oil present ?</li> <li>Basic data entered into PROBLEM REPORT ?</li> </ul>			Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>



**CONFIGURATION OVERVIEW / PROBLEM REPORT**  
(Put cross in box where appropriate)

<b>Application</b>	Refrigeration <input type="checkbox"/>	No. of cooling outlets _____	Air Conditioning <input type="checkbox"/>	Condenser <input type="checkbox"/>	Other _____																																																
<b>Refrigerant</b>	R404A..... <input type="checkbox"/>	R407C..... <input type="checkbox"/>	R134a..... <input type="checkbox"/>	Total refrig. Power _____ [kW]	Other _____																																																
	R507A..... <input type="checkbox"/>	R22..... <input type="checkbox"/>	R.....																																																		
<b>Compressor 1</b>	Piston <input type="checkbox"/>	No. of cylinders _____	Scroll <input type="checkbox"/>	Screw <input type="checkbox"/>	Other _____																																																
	Start unloader <input type="checkbox"/>	Part Winding <input type="checkbox"/>	Variable speed <input type="checkbox"/>	<b>OR</b> Fixed speed <input type="checkbox"/>	No. of compressors _____																																																
	Capacity control _____ [%]	_____ [%]	_____ [%]	_____ [%]																																																	
	Manufacturer _____	Model _____	Anything special _____																																																		
<b>Compressor 2</b>	Piston <input type="checkbox"/>	No. of cylinders _____	Scroll <input type="checkbox"/>	Screw <input type="checkbox"/>	Other _____																																																
	Start unloader <input type="checkbox"/>	Part Winding <input type="checkbox"/>	Variable speed <input type="checkbox"/>	<b>OR</b> Fixed speed <input type="checkbox"/>	No. of compressors _____																																																
	Capacity control _____ [%]	_____ [%]	_____ [%]	_____ [%]																																																	
	Manufacturer _____	Model _____	Anything special _____																																																		
<b>Operating point</b>	Suction pressure _____	High (discharge) pressure _____	Pascal/ <input type="checkbox"/>	Suction gas temperature _____ [°C]	Discharge gas temperature _____ [°C]																																																
			bar/ <input type="checkbox"/>		Motor current _____ [A]																																																
			lb/in <sup>2</sup> <input type="checkbox"/>																																																		
<b>Start up</b>	Suction pressure _____	High (discharge) pressure _____	gauge/ <input type="checkbox"/>	Anything special _____	Motor current _____ [A]																																																
			absolute <input type="checkbox"/>																																																		
<b>FrigoPack Speed variator</b>	<b>FrigoPack/MotorMaster</b> Type <u>FP/MM</u> Serial number _____		<b>Pressure sensors</b> Suction pressure _____ Discharge pressure _____		<b>FrigoSoft refrigeration/ A/C software</b> FS E3.2-1x Version _____ Mode _____																																																
<b>FrigoPack Soft Starter</b>	<b>FrigoPack/SoftCompact, LEKTROMIK/SoftPower</b> Type <u>FP/SC/LEK</u> Serial number _____		<b>Switching times of compressor pack</b> Variable-speed compressor (VsC) t <sub>ON</sub> _____ [s] Fixed speed compressor(s) (FsCs) t <sub>ON</sub> _____ [s] t <sub>PERIOD</sub> _____ [s] t <sub>PERIOD</sub> _____ [s]																																																		
<b>Report</b>					List of adjustable parameters in OPERATOR menu <i>FrigoPack FMV/FEV-12 / FrigoSoft E3</i>																																																
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<b>KIMO Refrigeration HVAC Ltd</b> EUR: Tel.: +49 911-8018778 Fax: +49 911-9976118 applications@frigokimo.com www.frigokimo.com																																																					
<b>Parker Hannifin Corporation</b> <b>Parker Hannifin Ltd:</b> Tel.: +44 1226-273400 Fax: +44 1226-273401 eurocold@parker.com www.sporlan.com Sporlan Division: Tel.: +1 636-239-1111 Fax: +1 636-239-0414 svd_techsupport@parker.com www.sporlan.com						Name: _____ Date: _____																																															