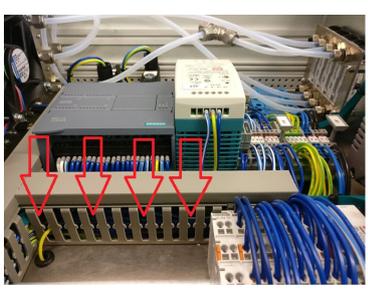
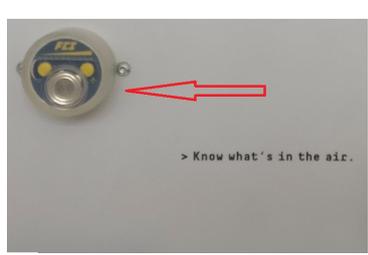


**SYCOS P-HOT Hot Gas Conditioning System**

	<p><b>SYCOS P-HOT ACSYPHOT-RSL17</b> <b>(with Swagelok 6mm or 8mm connectors)</b></p> <p>Including:</p> <ul style="list-style-type: none"> <li>- Control unit &amp; Sampling unit</li> <li>- 4-20 mA Analog inputs for                             <ul style="list-style-type: none"> <li>o O<sub>2</sub></li> <li>o One free, not specified</li> </ul> </li> </ul>	<input type="checkbox"/>
	<p><b>SYCOS P-HOT ACSYPHOT-QL17</b> <b>(with Quick-Lock connectors)</b></p> <ul style="list-style-type: none"> <li>- Quick Lock connectors for mobile use</li> <li>- For fixed applications ACSYPHOT-RSL17 with Swagelok 6mm or 8mm recommended</li> </ul>	<input type="checkbox"/>
	<p><b>OPTIONAL I/O cards, CALCMET™ compatible OPTION D</b></p> <ul style="list-style-type: none"> <li>- 4 channel analog input card</li> <li>- 8 channel analog output card</li> <li>- 8 channel digital input card</li> <li>- 8 channel digital output card</li> <li>- 2 channel relay card, dry contact</li> <li>- Potential distributor card</li> </ul> <p>Control unit has space for up to five (5) extension cards</p>	<input type="checkbox"/>  Details: page 4
	<p><b>Option: sample flow measurement ACSYPHOT-OPT-C17</b></p> <p>Typical use:</p> <ul style="list-style-type: none"> <li>- Measure sample gas flow to the FTIR</li> <li>- record the total sample volume (integrate over time)</li> <li>- monitor the filter and pump status</li> </ul> <p>Operation principle:</p> <ul style="list-style-type: none"> <li>- thermal dispersion with equal mass sensing</li> </ul>	<input type="checkbox"/>
	<p><b>Option: integrated dilution ACSYPHOT-OPT-B17</b></p> <p>allowing a selection between diluted sample gas and undiluted (but filtered) raw gas at any time:</p> <ul style="list-style-type: none"> <li>- Dilution probe built inside heated zone</li> <li>- Pressure sensors for vacuum and dilution gas (PLC of the control unit calculates the dilution ratio)</li> <li>- Critical nozzle highly resistant to HF</li> </ul> <p>Typical use:</p> <ul style="list-style-type: none"> <li>- Li-Ion battery research</li> <li>- Special applications</li> </ul>	<input type="checkbox"/>
	<p><b>Option: Span Gas Valve ACSYPHOT-OPT-A17</b></p> <p>Including:</p> <ul style="list-style-type: none"> <li>- Valve, Flowmeter inside Control Unit</li> <li>- Calcmeter™ Software support</li> </ul>	<input type="checkbox"/>

## SYCOS P-HOT Hot Gas Conditioning System

	<p><b>Additional sampling unit</b>      <b>ACSYPHOT-ZONE-RSL17</b> <b>ACSYPHOT-ZONE-QL17</b></p> <ul style="list-style-type: none"> <li>- In case two point sampling needed, for example:             <ul style="list-style-type: none"> <li>o 1<sup>st</sup> sampling point before catalyst</li> <li>o 2<sup>nd</sup> sampling point after catalyst</li> </ul> </li> <li>- Automatic sample line selection with CALCMET™</li> <li>- Heated lines and their control not included</li> </ul>	<input type="checkbox"/>
	<p><b>Pre-filter unit for EN45545</b>      <b>ACSYPHOT-FIL-U-QL17</b></p> <p>Typical use:</p> <ul style="list-style-type: none"> <li>- Material &amp; Fire testing applications</li> <li>- SYCOS-P-HOT can be used both upstream or downstream with this extension</li> <li>- Fulfills the extended requirements of the EN45545</li> </ul> <p>Includes:</p> <ul style="list-style-type: none"> <li>- Gasmet filter, temperature control (max 180°C)</li> <li>- Temperature controllers for 1 heated lines</li> </ul>	<input type="checkbox"/>
	<p><b>Compact transport case with wheels</b>      <b>AC-CASE</b></p> <p>19" transport case:</p> <ul style="list-style-type: none"> <li>- Removable front + back covers</li> <li>- Place for heated lines</li> <li>- Shock protection</li> <li>- Sampling unit housed inside</li> <li>- Wheels</li> </ul>	<input type="checkbox"/>
	<p><b>Typical "semiportable" 19 "rack with wheels</b>      <b>AC-RACK</b></p> <p>Easily movable system:</p> <ul style="list-style-type: none"> <li>- maximum height 25U (ca 140 cm)</li> <li>- place for control unit, sampling unit, computer, pull-out display and keyboard, FTIR, FID, O<sub>2</sub>, etc</li> <li>- wheels</li> </ul>	<input type="checkbox"/>
	<p><b>Heated lines, probes, other accessories</b></p> <ul style="list-style-type: none"> <li>- SYCOS P HOT includes connectors for two heated lines, PT100.</li> </ul>	<input type="checkbox"/>
	<p><b>Pump membrane kit for KNF N 012</b>      <b>ACKNF012KIT</b></p> <p>For maintenance:</p> <ul style="list-style-type: none"> <li>- Pump membranes need to be replaced regularly, typically once or twice a year depending on the use</li> </ul>	<input type="checkbox"/>

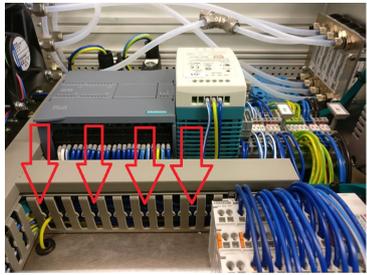


## SYCOS P-HOT: Special items...

	<p><b>SYCOS P-HOT multi-analyzer version Hot Gas Conditioning System designed for parallel wet chemical sampling</b></p> <p style="text-align: right;"><b>ACSYA-TT1PHT</b></p> <p>Including:</p> <ul style="list-style-type: none"> <li>- Control unit &amp; Sampling unit</li> <li>- 2<sup>nd</sup> pump for 3 auxiliary gas outlets</li> <li>- 4-20 mA Analog inputs for             <ul style="list-style-type: none"> <li>o O<sub>2</sub></li> <li>o One free, not specified</li> </ul> </li> </ul>	<input type="checkbox"/>
	<p><b>Control unit with full CALCMET™ support</b></p> <p>Typical use:</p> <ul style="list-style-type: none"> <li>- “Build your own system”</li> <li>- Available for OEM customers and universities only</li> <li>- Requires Siemens ET 2000 SP</li> </ul>	<input type="checkbox"/>
	<p><b>Monitor + computer:</b></p> <p>Industrial Computer <span style="float: right;"><b>ACCGPC4</b></span></p> <ul style="list-style-type: none"> <li>- for fixed installations*</li> </ul> <p style="text-align: right;"><b>ACSYA-TT1PHT</b></p> <p>Pull out keyboard+monitor+touchpad (image left)</p> <ul style="list-style-type: none"> <li>- 19”, 1HU pull out monitor with keyboard is practical combination with an industrial 19” PC</li> </ul> <p><i>* A laptop PC is typically most practical solution for mobile systems. However, for fixed installations a 19” industrial PC is a recommended solution</i></p>	<input type="checkbox"/>  <input type="checkbox"/>

## OPTION D: I/O configuration

SYCOS P HOT standard configuration includes a 4 channel 4-20 mA analog input card and the needed digital contacts for normal operation. The built-in 4 channel analog input card is reserved for O<sub>2</sub> (external analyser), Option C (gas flow to FTIR), Option B (dilution ratio), and one user configurable. The system can easily be equipped with additional I/O modules.

	<b>I/O cards, CALCMET™ compatible</b>	<b>OPTION D</b>	
	<ul style="list-style-type: none"> <li>- 4 channel analog input card 4-20 mA 0-10 V</li> </ul>	<b>ACBFL3054</b> <b>ACBFL3064</b>	<input type="checkbox"/> ___ <input type="checkbox"/> ___
	<ul style="list-style-type: none"> <li>- 4 channel analog output card 4-20 mA</li> </ul>	<b>ACBFL4424</b>	<input type="checkbox"/> ___
	<ul style="list-style-type: none"> <li>- 8 channel analog output card set 4-20 mA</li> </ul>	<b>ACBFL4428+ACBFL9187</b>	<input type="checkbox"/> ___
	<ul style="list-style-type: none"> <li>- 8 channel digital input card set</li> </ul>	<b>ACBFL1KL1408+ACBFL9186</b>	<input type="checkbox"/> ___
	<ul style="list-style-type: none"> <li>- 8 channel digital output card set</li> </ul>	<b>ACBFL1KL2408+ACBFL9187</b>	<input type="checkbox"/> ___
	<ul style="list-style-type: none"> <li>- 2 channel relay card, dry-contact</li> </ul>	<b>ACBFL1KL2622</b>	<input type="checkbox"/> ___
	<p>NOTE: The listed prices include connectors, wiring, and installation at the time of original delivery. In case of after-delivery update a reconfiguration fee may apply.</p>		
	<p>NOTE: <b>ACBFL9186</b> and <b>ACBFL9187</b> are potential distribution terminals. KL9187 distributes 0 potential and it is needed with an 8 channel output card. KL9186 distributes 24 V and it's needed with digital input card. In case the card needs a signal like an input card then you need 24V distributed.</p>		
	<p>Control unit has space for up to five (5) extension cards</p>		