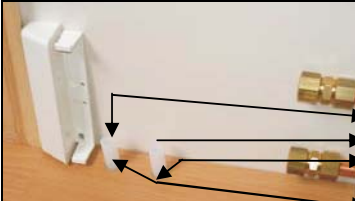




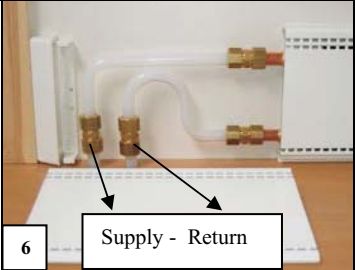












# WANPAN® MOUNTING INSTRUCTION

## Basic installation with copper, steel and PEX pipes

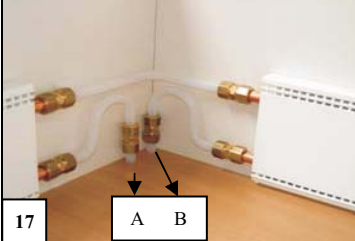

 <p><b>1</b></p>	<p>Lead the connecting pipes to each space and position them as shown where the connections to the heating panels are to be.</p> <p>Supply. Return.</p> <p>Distance from wall to outer edge of pipe max 7/8".</p> <p>Distance between supply and return pipes min 1,5".</p>	 <p><b>2</b></p>	<p>Any stretches under doorways should be done at the same time as the basic installation and positioned in the same way.</p> <p>NB: In large rooms there can be several connections, as the maximum circuit length for the heating panels should not exceed 600".</p> <p>If there are empty pipes, cut them off level with the floor.</p>
 <p><b>3</b></p>	<p>Lay the panels along the wall where there are to be fitted. Do not remove the packaging until ready to fit to avoid scratches.</p> <p>Fit KB brackets for fitting the heating panels to the wall, 2 for panels less than 78,74", three for panels over 78,74".</p> <p>Distance from the floor to the centre of the elongated hole in the bracket must be 3,4" when the hole is turned upwards.</p>	 <p><b>4</b></p>	<p><b>Reflecting foil"</b></p> <p>Fit the reflecting foil to all cold walls.</p> <ol style="list-style-type: none"> <li>1. Cut the foil to the length of the wall.</li> <li>2. Remove the backing.</li> <li>3. Stick the foil to the wall.</li> </ol> <p>The foil helps to project the heat into the room.</p>
 <p><b>5</b></p>	<p>Clip the panels onto the brackets. The connecting pieces to join the panels should be fitted at the same time.</p> <p>NB: Before final tightening: Adjust the brackets so the panels can move freely lengthwise without jamming against the wall or floor.</p>	 <p><b>6</b></p> <p>Supply - Return</p>	<p><b>Connection:</b></p> <p>The connecting pipes suit coupling set type KT.</p> <p>NB: After trial heating, when the blank panel is to be fitted, a special blank panel type APT 32 should be used, where some of the ribs have been removed to allow room for the couplings. Any cutting should be done at the end towards the plastic section.</p>
 <p><b>7</b></p>	<p><b>Straight coupling with KC:</b></p> <p>Clamp ring couplings are fitted directly to the panels.</p> <p>NB: Remember the end bush. Clamp fittings or ordinary soldered connectors can also be used, but be careful with the painted surfaces of the panels and the wall.</p>	 <p><b>8</b></p>	<p><b>Straight coupling with KL:</b></p> <p>The KL set can also be used for straight coupling. This is intended for places where electrical sockets are to be fitted into the panel.</p>
 <p><b>9</b></p>	<p><b>Inside corner coupling:</b></p> <p>Cut the PEX pipes and connect to the panel with clamp ring couplings.</p> <p>NB: Make sure that the pipes are parallel with the wall. The best way to cut PEX pipes is with pruning shears. Remember the end bush.</p>	 <p><b>10</b></p>	<p><b>Outside corner coupling:</b></p> <p>Cut the PEX pipes and connect to the panel with clamp ring couplings.</p> <p>NB: Make sure the PEX pipes are parallel to the wall. The best way to cut PEX pipes is with pruning shears. Remember the end bush.</p>
 <p><b>11</b></p>	<p><b>End with valve:</b></p> <p>Make a 0,4" deep recess in the wall behind the valve.</p> <p>Fit the valve with coupling set type KUVL.</p> <p>NB: If the installation is centrally controlled with valves on a distribution unit, use coupling set type KUL.</p>	 <p><b>12</b></p>	<p><b>End with KUL:</b></p> <p>If the installation is centrally controlled, end with coupling set type KUL.</p> <p>This set is also used if the supply and return pipe are connected to the middle of a stretch.</p>

## Trial heating





## Fitting blank panel

 <p>13</p>	<p><b>Trial heating:</b> Fill the installation with water and let out the air with the air screws in KUL and KULI. Check all joints for leaks. Turn the installation up to full heat, turn the thermostat up fully, check that all panels are warm, and after approx. 1/2 hour cut the blank panels. NB: The valve can be adjusted for the size of the room and the return temperature.</p>	 <p>14</p>	<p><b>Fitting blank panels:</b> Measure the length of the gap with the installation at full heat. Cut the blank panel 0,08-0,1" smaller than the gap. The blank panel is supplied with type PB clips at both ends, 0,1-0,2" from the edge, and clip the blank panel in place. The PB clips grips the copper pipe in the heating panel.</p>
 <p>15</p>	<p><b>Fitting blank panels in corners and finishing at end pieces:</b> Measure the length of the gap with the installation at full heat. Cut the blank panel 0,08-0,1" smaller than the gap. The blank panel is supplied with a type PB clip on one end, fix the other end to an end or corner element, type PO, PP or PQ.</p>	 <p>16</p>	<p><b>Fitting blank panels:</b> Cut using a fine-toothed hacksaw, or for a better result, use a circular saw with a disc for aluminium.</p> <p><b>Finishing:</b> When the blank panel is fitted, use a PC clips to cover the joints.</p>

## Special circumstances

 <p>17</p>	<p><b>Connections in corners:</b> Connections must be positioned min 6 cm from corners.</p> <p><b>Supply pipe A:</b> connect the lowest pipe in the Wanpan-panel to none side of the corner.</p> <p><b>Return pipe B:</b> connect the lowest pipe on the other side of the corner.</p> <p>Connect the top pipes of both Wanpan-panels with an elbow pipe.</p>	 <p>18</p>	<p><b>Corners which are not 90° C:</b> Place 2 blank panel brackets Type KA near the corner. Fit the blank panels with a bevel. Measure the blank panels as for normal fitting, with the installation at full heat. It is a good idea to fit the blank panels in the irregular corner first as this gives greater flexibility in the system.</p>
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## Electrical fittings

 <p>19</p>	<p><b>Laying cables:</b> Electric cables are fitted horizontally to the wall in the middle of a KB bracketed before fitting the Wanpan-panels and fastened every 2,36" all the way with metal fasteners. A maximum of two strong power cables of max 10 A load may be used for a supply pipe temperature of 176° F.</p>	 <p>20</p>	<p><b>Straight coupling and electricity fittings:</b> To leave enough room for electrical fittings, use a straight coupling type KL between the panels. To cover, use a blank panel type APK-22, which is supplied with a cut-out for switch base type PX.</p>
 <p>21</p>	<p><b>Switch bases:</b> The switch bases suit Laurids Knudsen's (LK) Fuga-series and should be fitted by an electrician.</p> <p>NB: fix the switch bases to the wall with two screws.</p>	 <p>www.wanpan-usa.com</p>	

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