
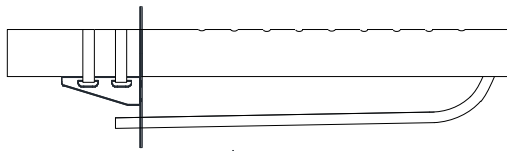
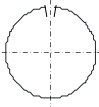
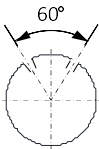
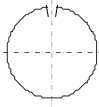
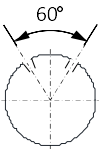
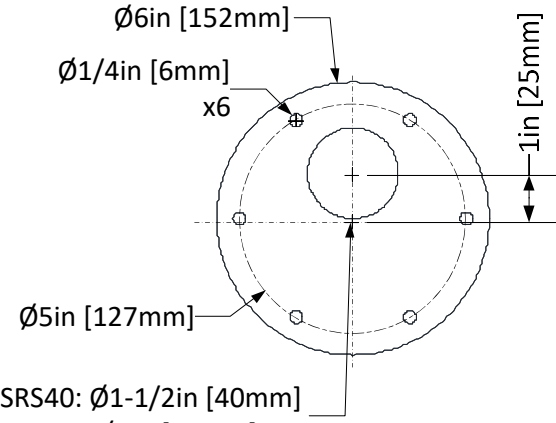
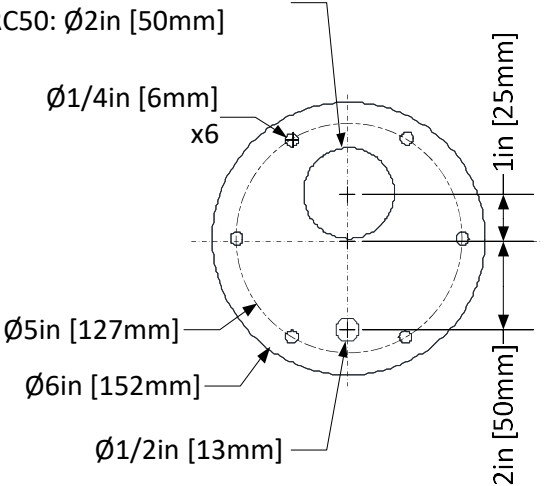


Steam ramps – data sheet

Steam ramp description

SRS - Steam ramp without dedicated condensate return		SRC - Steam ramp with dedicated condensate return	
 <p style="text-align: center;">Figure 1 – SRS</p>		 <p style="text-align: center;">Figure 2 – SRC</p>	
<p>Simpler to install, but not recommended when large quantity of condensate is produced (in case of long steam line run or large duct with low air temperature).</p>		<p>Avoid any possible trouble due to condensate flow against the steam flow inside steam pipe or hose. A condensate line must be installed and connected to drain or returned to humidifier</p>	
Standard absorption	Short absorption -X	Standard absorption	Short absorption -X
 <p style="text-align: center;">Figure 3 – SRS</p>	 <p style="text-align: center;">Figure 4 – SRSX</p>	 <p style="text-align: center;">Figure 5 – SRC</p>	 <p style="text-align: center;">Figure 6 – SRCX</p>
 <p style="text-align: center;">Figure 7 – SRS & SRSX cover plate dimension</p>		 <p style="text-align: center;">Figure 8 – SRC & SRCX cover plate dimension</p>	
Maximum steam capacity SRS		Maximum steam capacity SRC	
<p>SRS40 : 40lb/h [18kg/h] SRS50 : 90lb/h [41kg/h]</p>		<p>SRC40 : 55lb/h [23kg/h] SRC50 : 100lb/h [45kg/h]</p>	

Horizontal duct

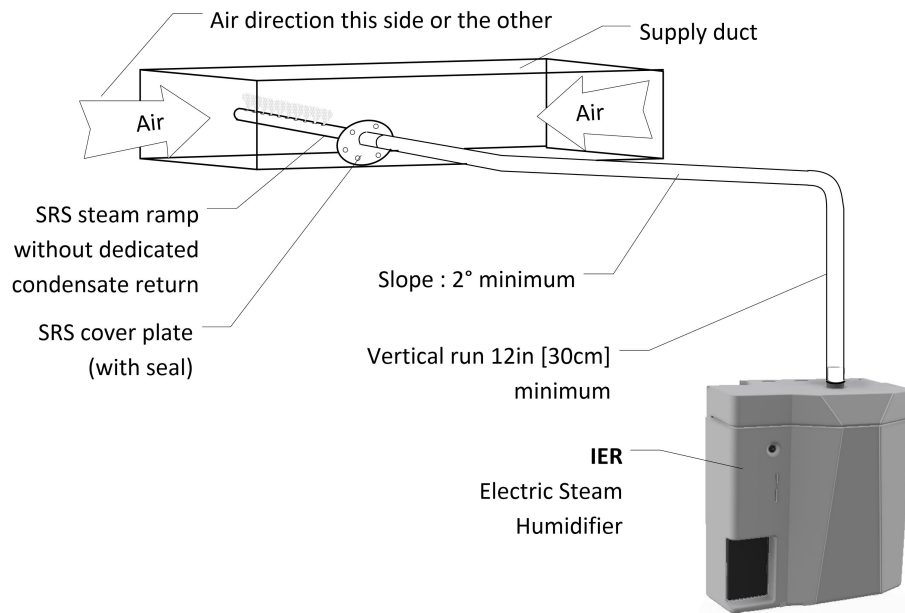


Figure 9 – SRS & SRSX installation – no dedicated condensate return line

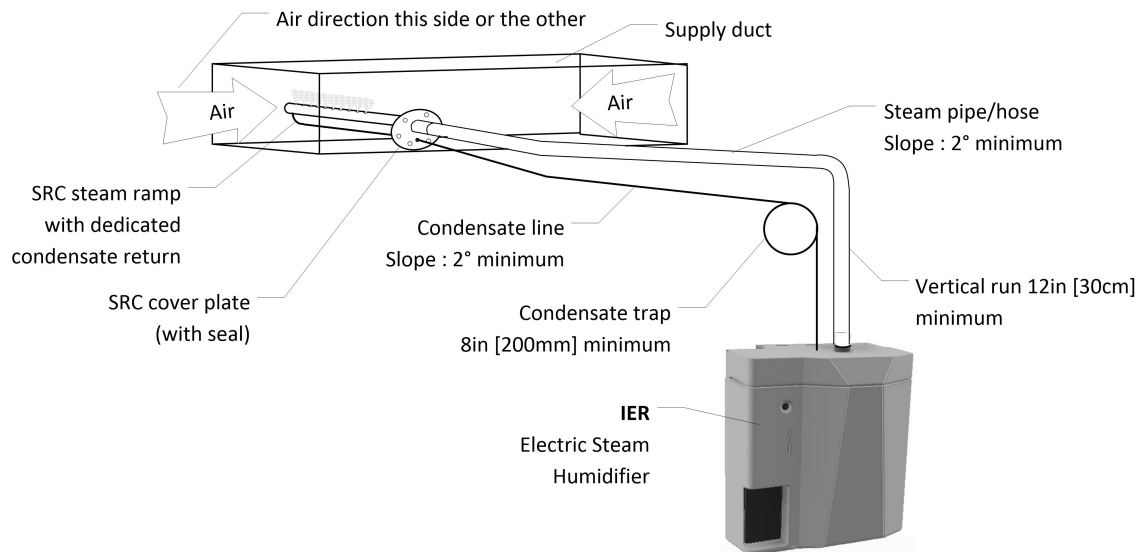


Figure 10 – SRC & SRCX installation – with dedicated condensate return line to IER

Installation steps :

1. Positioning & mounting of **SR (S, C, SX or CX)** steam ramp to the ventilation duct wall by using metal screw
2. Install the steam hose or rigid steam pipe between the IER steam humidifier and the steam ramp.

Note: when using rigid steam pipe (stainless steel or copper) it is a good practice to connect in between the steam ramp, IER humidifier and pipe by using a small length of steam hose for ease of installation and service.

Allow for a slope of 2° minimum.

3. Secure all connexion with hose clamps
4. For SRC or SRCX install a condensate hose in between steam ramp and IER humidifier.
Provide a condensate trap of 8in [200mm] minimum as shown on above figure.
Allow for a slope of 2° minimum
5. Secure all connexion with hose clamps

Minimum distances for SRS & SRSX

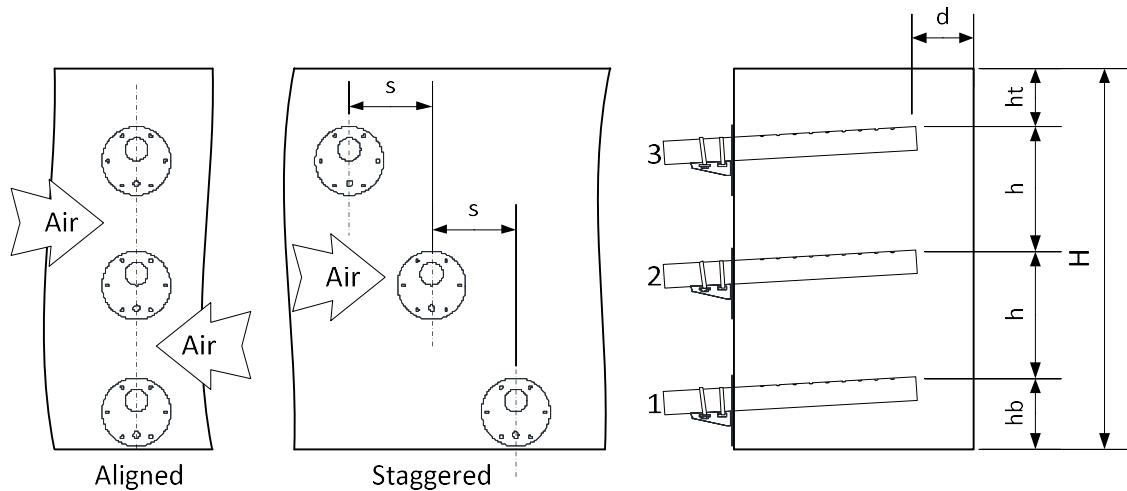


Figure 11 – SRS & SRSX minimum distances

In order to avoid condensing on the duct surface or on ramps, steamOvap recommends the following minimum distances:

- **ht(min)**
Minimum height distance between end of top ramp (#3) and top of the duct.
 $ht(\text{min}) = 4.5\text{in} [115\text{mm}]$
- **d(min)**
Minimum depth distance between top ramp and side wall of the duct.
 $d(\text{min}) = ht(\text{min}) = 4.5\text{in} [115\text{mm}]$
- **hb(min)**
There is no minimum height distance required for the bottom ramp (#1) and the bottom of the duct. However we recommend a minimum: $hb(\text{min})=4\text{in} [100\text{mm}]$
- **h(min)**
Height in between ramps (h) should be equal / even.
 $h = H - (ht + hb) / (\text{nb of ramps} - 1)$
If ramps are aligned
 $h(\text{min}) = 8\text{in} [200\text{mm}]$
Air flow can be one or the other direction.

If ramps are staggered

$h(\text{min}) = 4.5\text{in} [115\text{mm}]$
Important: the air flow direction should be as indicated on above drawing.
 $s(\text{min})$ minimum distance between ramps
 $s(\text{min}) = 4\text{in} [100\text{mm}]$

Minimum distances for SRC & SRCX

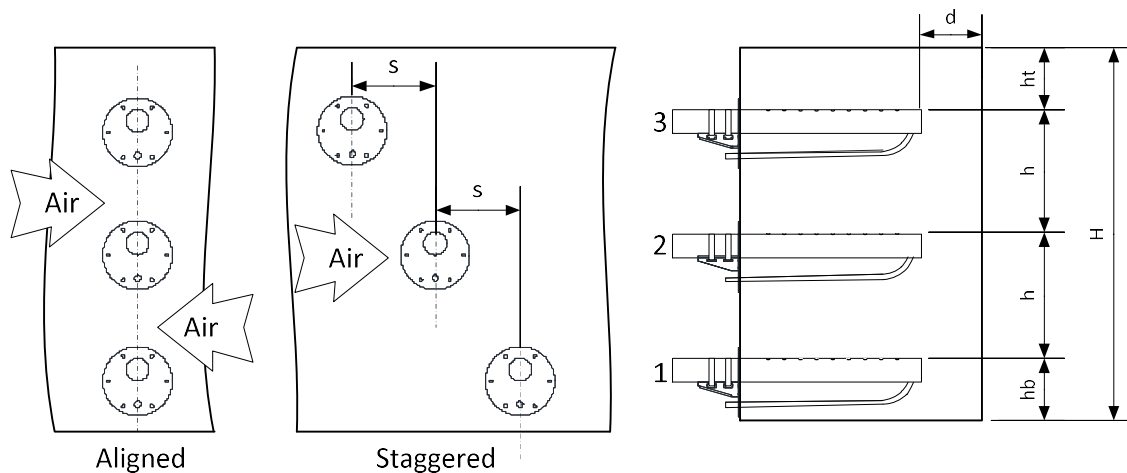


Figure 12 – SRC & SRCX minimum distances

In order to avoid condensing on the duct surface or on ramps, steamOvap recommends the following minimum distances:

- $ht(\min)$
Minimum height distance between end of top ramp (#3) and top of the duct.
 $ht(\min) = 5\text{in} [130\text{mm}]$
- $d(\min)$
Minimum depth distance between top ramp and side wall of the duct.
 $d(\min) = 4.5\text{in} [115\text{mm}]$
- $hb(\min)$
There is no minimum height distance required for the bottom ramp (#1) and the bottom of the duct. However we recommend a minimum: $hb(\min) = 4\text{in} [100\text{mm}]$
- $h(\min)$
Height in between ramps (h) should be equal / even.
 $h = H - (ht + hb) / (\text{nb of ramps} - 1)$,

If ramps are aligned

$$h(\min) = 8\text{in} [200\text{mm}]$$

Air flow can be one or the other direction.

If ramps are staggered

$$h(\min) = 4.5\text{in} [115\text{mm}]$$

Important: the air flow direction should be as indicated on above drawing.

$s(\min)$ minimum distance between ramps

$$s(\min) = 4\text{in} [100\text{mm}]$$