
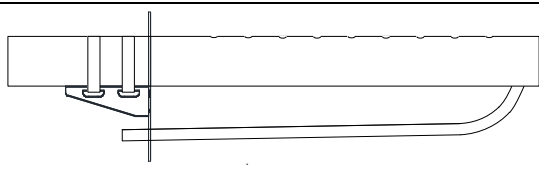
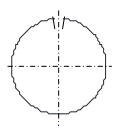
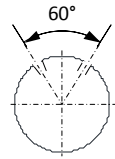
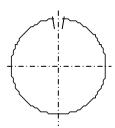
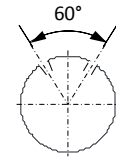
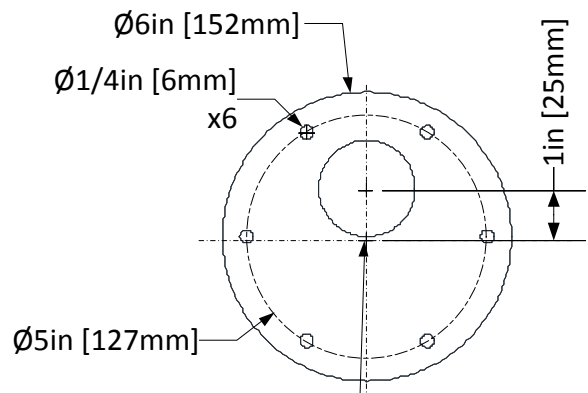
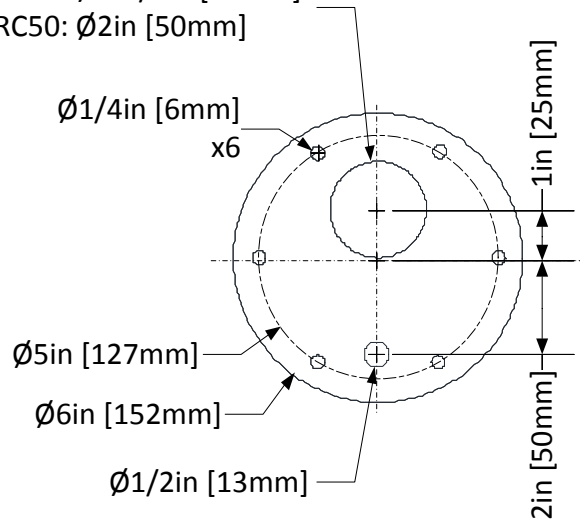
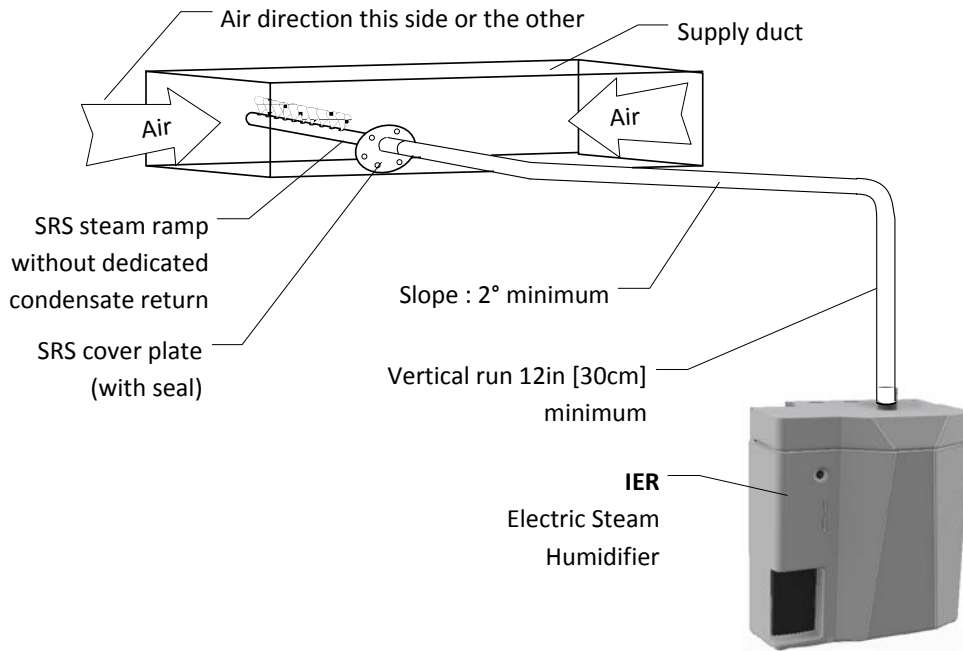


# Steam ramps – data sheet

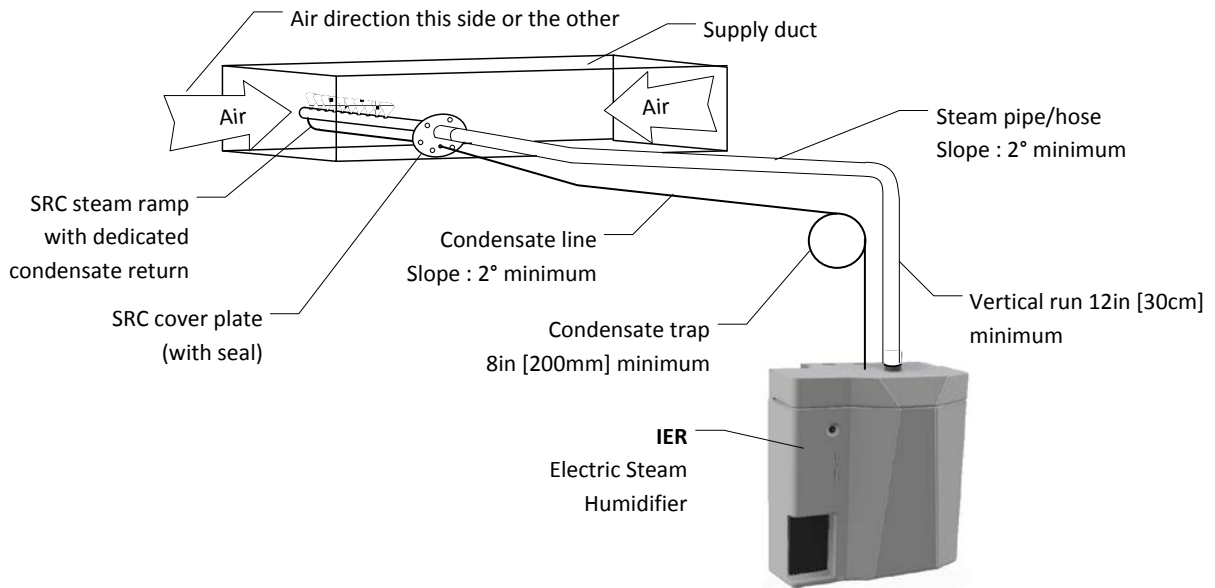
## Steam ramp description

<p align="center"><b>SRS - Steam ramp without dedicated condensate return</b></p>  <p align="center"><i>Figure 1 – SRS</i></p>		<p align="center"><b>SRC - Steam ramp with dedicated condensate return</b></p>  <p align="center"><i>Figure 2 – SRC</i></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>	
<b>Standard absorption</b>	<b>Short absorption -X</b>	<b>Standard absorption</b>	<b>Short absorption -X</b>
 <p align="center"><i>Figure 3 – SRS</i></p>	 <p align="center"><i>Figure 4 – SRSX</i></p>	 <p align="center"><i>Figure 5 – SRC</i></p>	 <p align="center"><i>Figure 6 – SRCX</i></p>
 <p>SRS40: Ø1-1/2in [40mm] SRS50: Ø2in [50mm]</p> <p align="center"><i>Figure 7 – SRS &amp; SRSX cover plate dimension</i></p>		 <p>SRC40: Ø1-1/2in [40mm] SRC50: Ø2in [50mm]</p> <p align="center"><i>Figure 8 – SRC &amp; SRCX cover plate dimension</i></p>	
<b>Maximum steam capacity SRS</b>		<b>Maximum steam capacity SRC</b>	
<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 stem 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

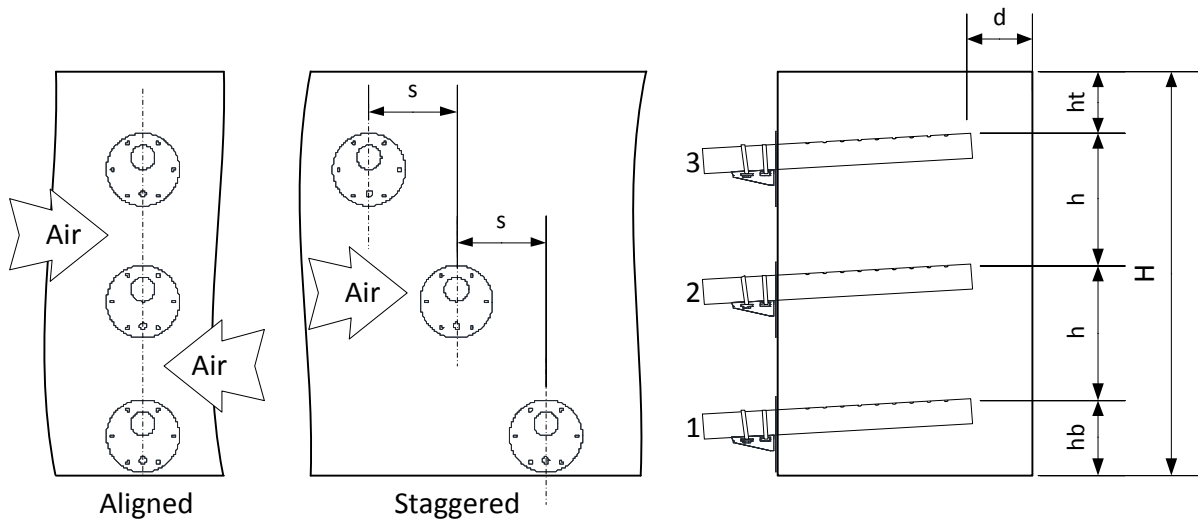


Figure 11 – SRS & SRSX minimum distances

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.  
 $ht(\min) = 4.5\text{in} [115\text{mm}]$
- $d(\min)$   
Minimum depth distance between top ramp and side wall of the duct.  
 $d(\min) = ht(\min) = 4.5\text{in} [115\text{mm}]$
- $hb(\min)$   
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.  
 $h = H - (ht + hb) / (\text{nb of ramps} - 1)$   

<p><u>If ramps are aligned</u> <math>h(\min) = 8\text{in} [200\text{mm}]</math> Air flow can be one or the other direction.</p>	<p><u>If ramps are staggered</u> <math>h(\min) = 4.5\text{in} [115\text{mm}]</math> Important: the air flow direction should be as indicated on above drawing. <math>s(\min)</math> minimum distance between ramps <math>s(\min) = 4\text{in} [100\text{mm}]</math></p>
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## Minimum distances for SRC & SRCX

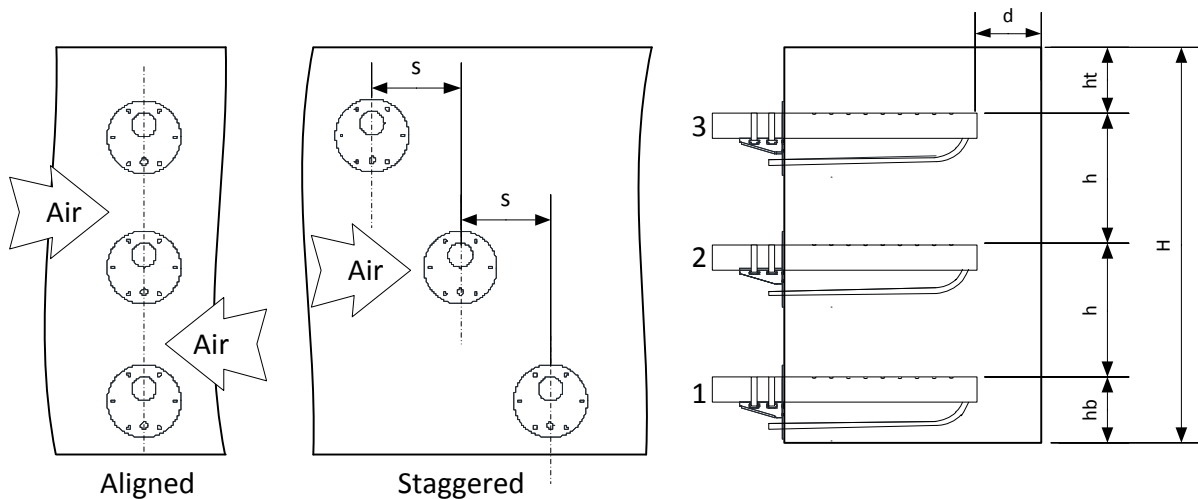


Figure 12 – SRC & SRCX minimum distances

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.  
 $ht(\text{min}) = 5\text{in} [130\text{mm}]$
  - **d(min)**  
Minimum depth distance between top ramp and side wall of the duct.  
 $d(\text{min}) = 4.5\text{in} [115\text{mm}]$
  - **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.
- |   |
|---|
| <p><u>If ramps are staggered</u><br/><math>h(\text{min}) = 4.5\text{in} [115\text{mm}]</math><br/>Important: the air flow direction should be as indicated on above drawing.<br/><math>s(\text{min})</math> minimum distance between ramps<br/><math>s(\text{min}) = 4\text{in} [100\text{mm}]</math></p> |
|---|