CONDENSATE MANAGEMENT: ATMOSPHERIC STEAM SYSTEMS
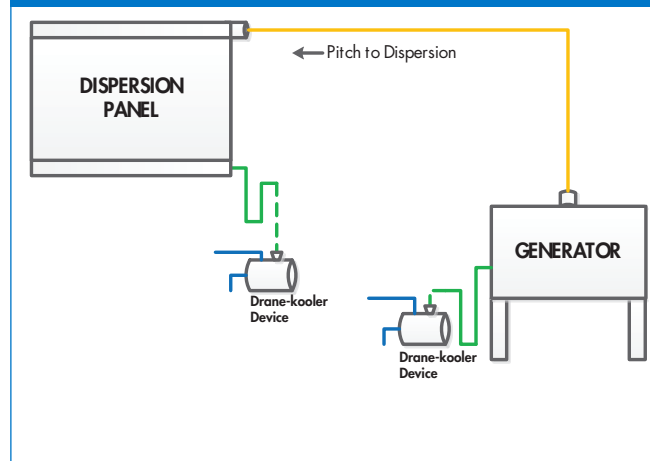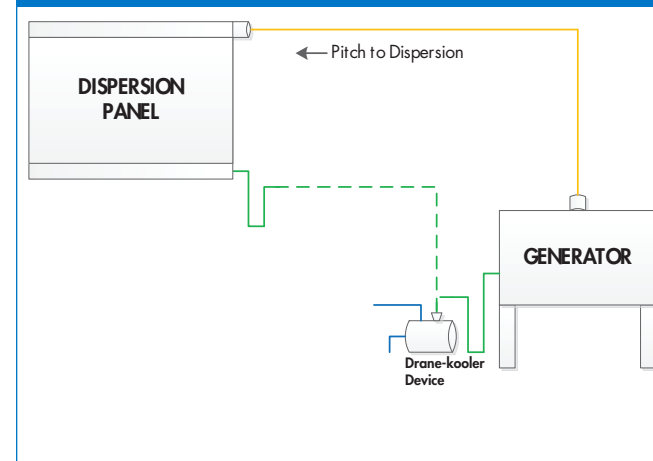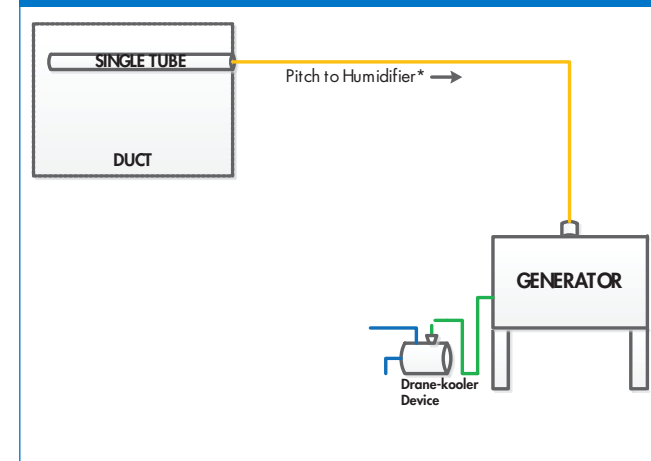
#1: Dispersion panel - separate drains
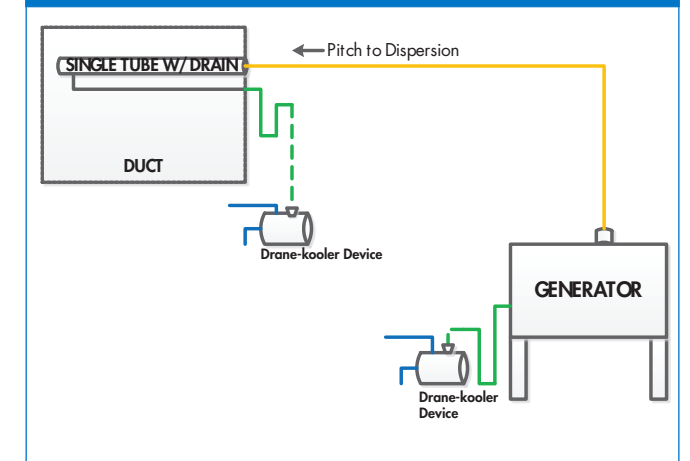
DISPERSION PANEL
← Pitch to Dispersion
GENERATOR
Drane-kooler Device
Drane-kooler Device

#2: Dispersion panel - common drain

DISPERSION PANEL
← Pitch to Dispersion
GENERATOR
Drane-kooler Device

#3: Single dispersion tube

SINGLE TUBE
DUCT
Pitch to Humidifier* →
GENERATOR
Drane-kooler Device

#4: Single dispersion tube with drain - separate drains

SINGLE TUBE W/ DRAIN
DUCT
← Pitch to Dispersion
GENERATOR
Drane-kooler Device
Drane-kooler Device

#5: Space distribution unit - separate drains

SDU
Pitch to Humidifier →
GENERATOR
Drane-kooler Device
Drane-kooler
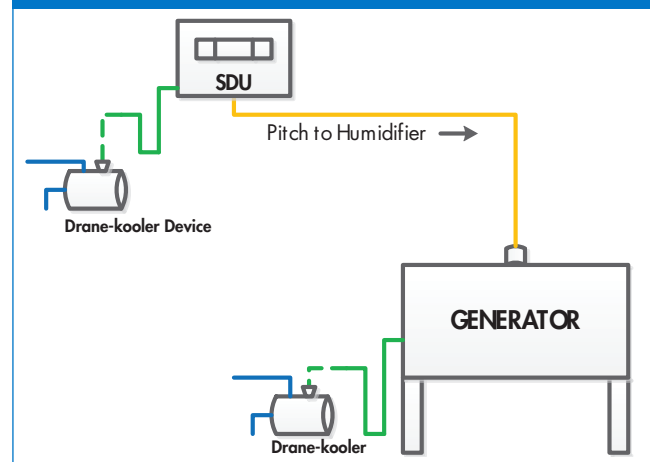
#6: Single dispersion tube with drain - common drain

SINGLE TUBE W/ DRAIN
DUCT
← Pitch to Dispersion
GENERATOR
Drane-kooler Device

#7: Space distribution unit - common drain

*SDU
Pitch to Humidifier →
GENERATOR
Drane-kooler Device
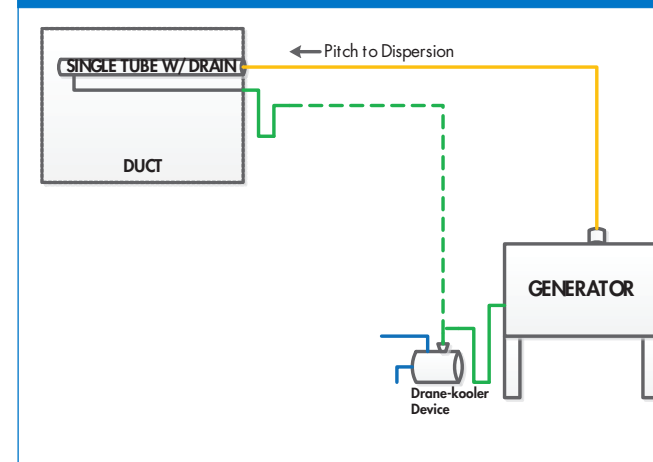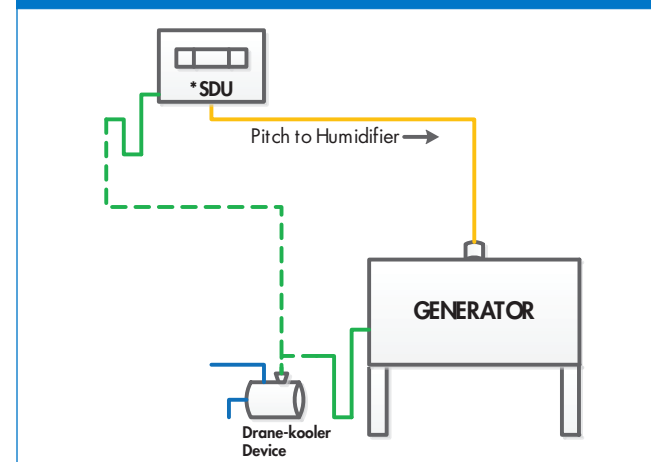
#8: Space distribution unit - common drain (XT units)

*SDU
Pitch to Humidifier* →
To Fill Cup →
GENERATOR (XT)
Drane-kooler Device
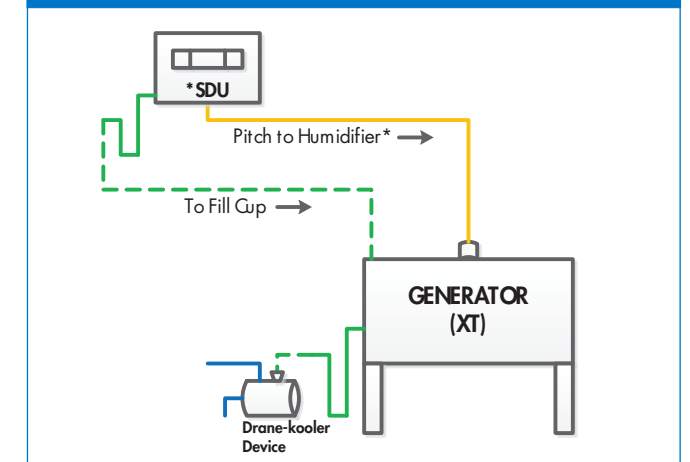
#9: Dispersion with obstruction - separate drain

DISPERSION DEVICE
OBSTRUCTION
← Pitch to Dispersion
GENERATOR
Drane-kooler Device
Drane-kooler Device
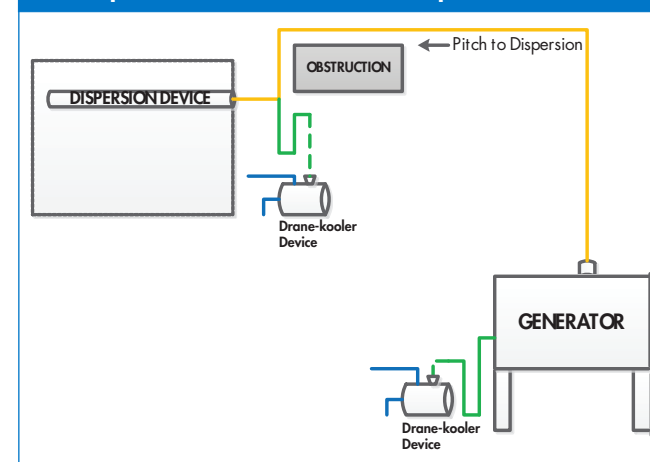
#10: Dispersion with obstruction - common drain

DISPERSION DEVICE
OBSTRUCTION
← Pitch to Dispersion
GENERATOR
Drane-kooler Device
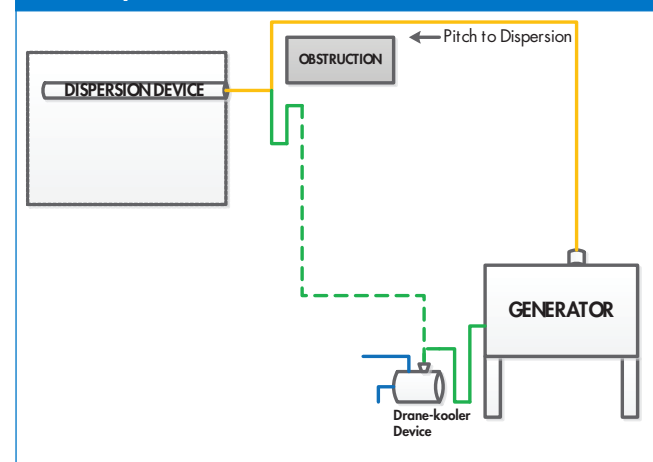
LEGEND

|	
Non Pressurized Steam
Non Pressurized Condensate
Cold Water

Notes:

1. The Drane-kooler water tempering device can be replaced with a standard drain.

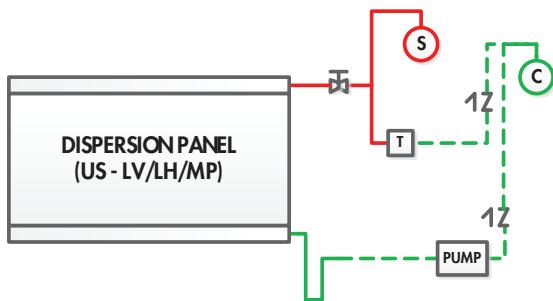2. Check with local code for maximum discharge drain temperature.

* Electrode humidifier (XT) with capacity > 20 lbs/hr must be pitched to dispersion.

driSteem

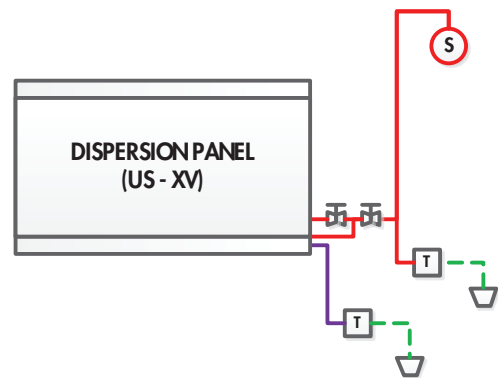# CONDENSATE MANAGEMENT: PRESSURIZED STEAM SYSTEMS
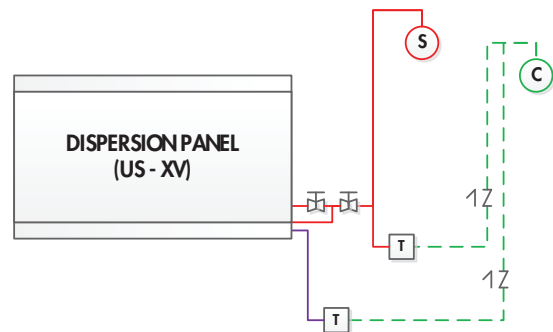
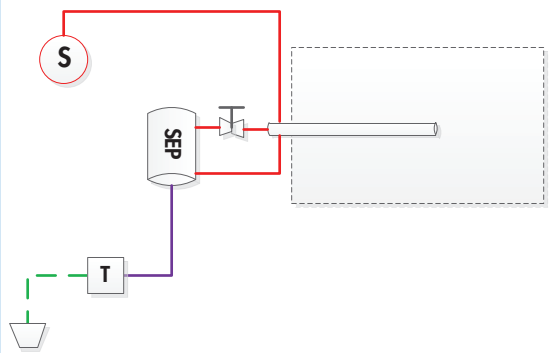### #1: Dispersion panel - separate drains

DISPERSION PANEL (US - LV/LH/MP)
Drane-kooler Device
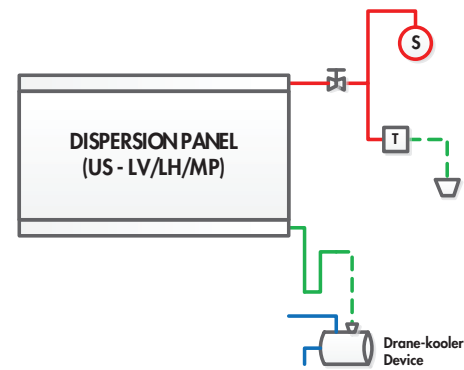
#2: Dispersion panel - to condensate main

DISPERSION PANEL (US - LV/LH/MP)
PUMP

#3: Ultra-sorb XV - separate drains

DISPERSION PANEL (US - XV)

#4: Ultra-sorb XV - to condensate main

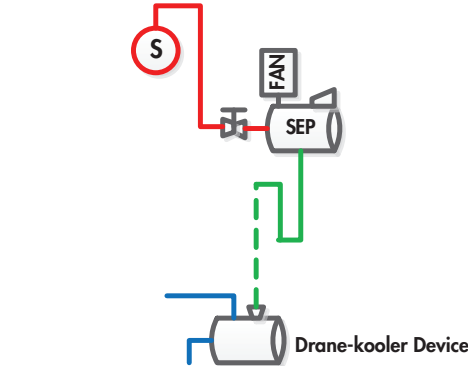DISPERSION PANEL (US - XV)

#5: Single tube - to drain

#6: Single tube - to condensate main
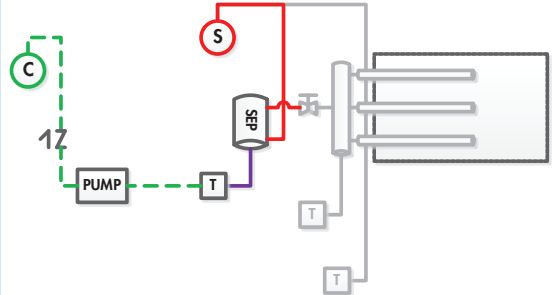
PUMP

#7: Area type - to drain

FAN
SEP
Drane-kooler Device
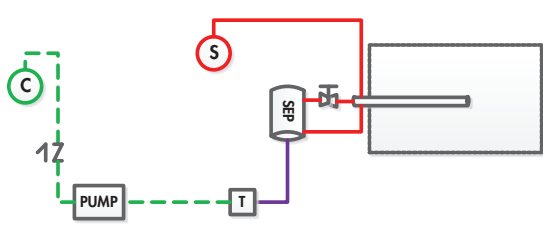
#8: Area type - to condensate main

FAN
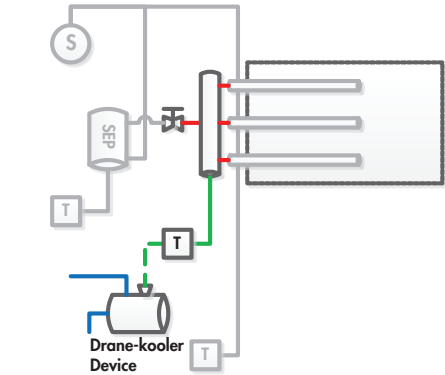SEP
PUMP
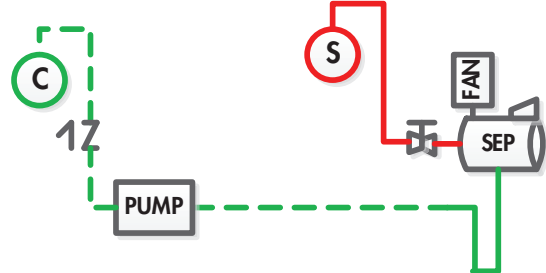
#9: Separator - to drain
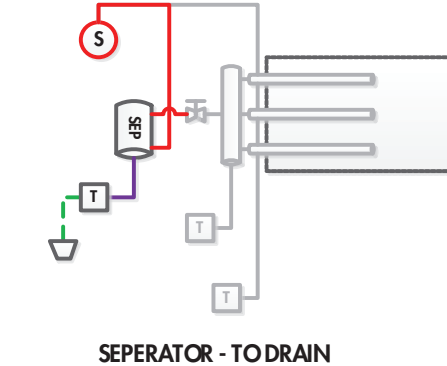
SEPERATOR - TO DRAIN

#10: Separator - to condensate main

PUMP

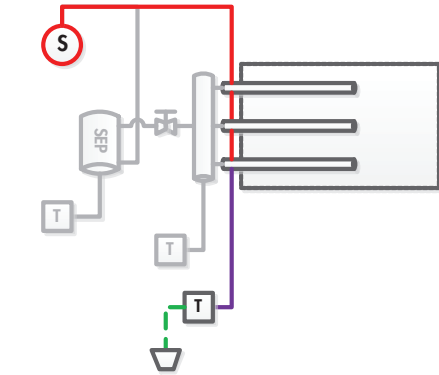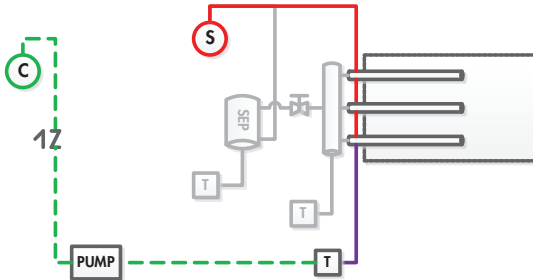### #11: Header - to drain

Drane-kooler Device

#12: Header - to condensate main
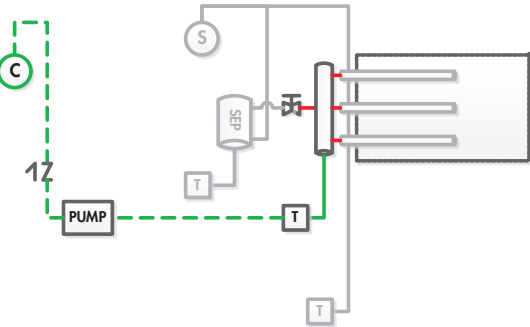
PUMP

#13: Jacketing - to drain

#14: Jacketing - to condensate main (pump)

PUMP

#15: Jacketing - to condensate main
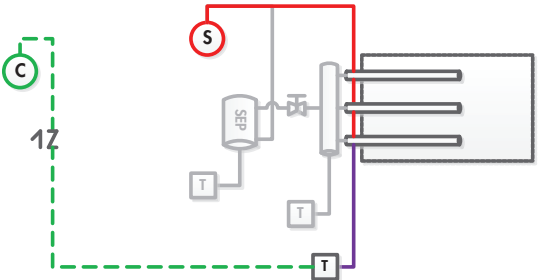
LEGEND

Pressurized Steam	(red)
Pressurized Condensate	(purple)
Non Pressurized Condensate	(green)
Cold Water	(blue)

Notes:

1. The Drane-kooler water tempering device can be replaced with a standard drain.

2. Check with local code for maximum discharge drain temperature.

Table 2-1: Steam trap recommendations

Standard piping	
Cast iron F& T	Steam pressure ≤15 PSI and not lifting condensate
Cast iron inverted bucket	Steam pressure > 15 PSI or lifting condensate
Stainless piping	
Stainless thermostatic	Steam pressure ≤15 PSI and not lifting condensate Up to 60 lbs/hr condensate load
Stainless F&T	Steam pressure > 15 PSI or lifting condensate Up to 120 lbs/hr condensate load
Stainless inverted bucket	Steam pressure > 15 PSI or lifting condensate