



# Condensate Management

SNAP-TRAP®, TRIP-L-TRAP® & TIMED ELECTRIC DRAINS





## Solutions to Fit Your Application

SPX is a place where innovation is valued, and the real needs of business are understood. We transform ideas into powerful solutions to help our customers meet their goals, overcome day-to-day challenges and thrive in a complex, always-changing marketplace.

Utilizing the latest technologies Hankison has engineered drains to ensure the manufacturing process and finished product are not contaminated by bulk liquids and oil. Proper drain installation is a critical component in all Hankison compressed air treatment systems.

### **Meeting the Needs of Today and Tomorrow**

We believe our customers are partners in the innovation process. Insight is continually gathered to understand the end-user experience of today and gain vision to the opportunities of tomorrow.

# The Importance of Condensate Management

Condensate drains are one of the most ignored components in a compressed air system, however, these components are one of the most important parts to an effective treatment system.

Contaminants enter a system at the compressor intake or can be introduced into the airstream during operation. Oil, water oil/water, lubricants, rust and pipe scale are all separated and filtered out by use of the filtration components installed in the system, but if the drains are not installed or do not operate properly the filters and separators are not successful.

## Drain Technologies

In a typical manufacturing facility many different types of drains can be utilized to prevent contaminants from entering the compressed air system. Of these there are two main technologies that Hankison offers: Pneumatic and Timed Electric Condensate Drains.

### Pneumatic Condensate Drains

Pneumatic drains are an economical option for light to medium service duty. This type of drain offers versatile installation due to the fact there is no need for electrical safety concerns during installation. Pneumatic drains are powered by air, not electricity, so they are ideally suited for remote or portable applications. They are also safe to operate in any hazardous area. Drains offered by Hankison are also zero-loss, meaning no compressed air is lost during the drain process. This results in energy savings.

### Timed Electric Condensate Drains

Timed Electric drains operate by utilizing two timed settings that a user can program according to their application and drainage requirements. The drains have one timer that is set for the interval between each time the drain opens. The second timer is set for the amount of time that the drain is open. During the draining process there will be a minimal amount of air loss.

## Energy Efficiency

How do your drains improve system efficiency? Besides the obvious savings of compressed air with a no-waste drain choice, there are other less obvious ways drains can save energy or cost you energy if not properly maintained. They are key components in the quest for system efficiency and reliability.

Installing automatic condensate drains has several benefits for every compressed air system

- Saves Man Hours
  - » Eliminate time draining air lines and equipment
  - » Eliminate purging air lines before work begins
- Prevents the receiver tank from filling up with condensate and causing the compressor to short cycle
- Zero loss drains save on wasted compressed air created when valves are cracked open to purge the air lines of condensate
- Ensures timely and effective condensate removal during working hours to protect end products and processes from contamination

# Pneumatic Drains

Hankison's level actuated, pneumatically operated condensate drains automatically discharge water, oil, and oil/water emulsions from separators, receiver tanks, dryers, filters, after-coolers and drip legs. Each drain is engineered to reduce system downtime by eliminating the need to manually drain compressed air lines and equipment.

Unlike simple float operated drains, these drains feature an air powered piston for positive opening and closing of the discharge port. This operation prevents clogging of the compressed air system while the baffle protects the operating mechanism from contaminants. The magnetic action lengthens time between cycles and prevents any external vibration from causing unnecessary discharge.

The Snap-Trap® and Trip-L-Trap® Series automatic condensate drains are designed for versatile installation, reliable performance and economical operation with features available to protect your compressed air system.

## Snap-Trap® Series

Snap-Trap® drains are the economical choice for light to medium duty service.

### Features

- Discharge 0.04 pt, 20 cc per operation (0.3 gal/h, 1.2 L/h)
- Maximum working pressures to 250 psig (17.2 barg)
- Durable, self bailing solid surface float won't lose buoyancy
- Resilient pilot valve seat
- Discharge port protected by screen
- Soft-seated discharge port won't leak
- Viton float mechanism is impervious to synthetic lubricants

### Options

- Housings
  - » Polycarbonate with guard
  - » Epoxy coated zinc with sight glass
- Connections
  - » Top connection models for installations with large clearance areas
  - » Bottom connection models for installations with for low clearance areas

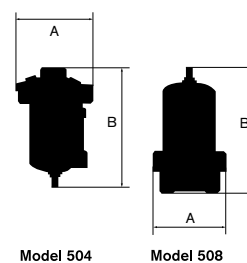


## Snap-Trap® Series Product Specifications

Model	Minimum/Maximum Operating Pressure		Minimum/Maximum Operating Pressure		Materials of Construction		Discharge Per Operation	Nominal Capacity (One cycle per minute)
	psig	barg	°F	°C	Bowl	Internal		
<b>504</b> Top Connection	20 / 175	1.4 / 12.3	35 / 120	2 / 49	Epoxy coated zinc housing c/w sight glass	Delrin mechanical parts Viton seals, Impervious to synthetic lubricants	0.04 pints 20 cc	0.3 gals/h 1.2 L/h
<b>508</b> Bottom Connection	20 / 175	1.4 / 12.3	35 / 120	2 / 49				

### Dimensions

Model	A		B		Inlet Connection NPT/BSP	Drain Connection
	in	mm	in	mm		
<b>504</b>	3.75	95	6.38	162	.5"	5/16" Tube
<b>508</b>	3.75	95	7	178	.375"	3/8" NPT/BSP



Model 504

Model 508

# Pneumatic Drains

## Trip-L-Trap® Series

Trip-L-Trap® drains are designed for heavy duty service and applications with heavily contaminated condensate output.

### Features

- Discharge rates of 3 or 24 gal/h (11 or 91 L/h)
- Maximum working pressures of 300 and 500 psig (21 and 35 barg)
- Stainless steel floats won't lose buoyancy
- Resilient pilot valve seat
- Skim tube ensures oil is removed first
- Stainless Steel mechanisms are impervious to synthetic lubricants
- Repair parts kit available

### Options

- Choice of operating capacities
- Choice of maximum working pressures
- Housings:
  - » Carbon Steel
  - » Stainless Steel
- Connections:
  - » Top connection models for installations where drain can be suspended below vessel
  - » Bottom connection models for installations with minimal clearance



## Trip-L-Trap® Series Product Specifications

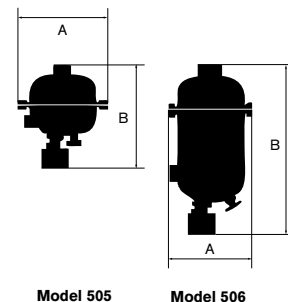
Model	Type	Model	Maximum Operating Pressure		Capacity <sup>1</sup>	Materials of Construction
			psig	barg		
<b>505 Series</b> Discharges 0.4 pt, 190 cc per operation	Top Connection	<b>505</b>	300	21	3 gal/h, 11.4 L/h	Carbon steel housing; Stainless steel, brass, delrin, nylon mechanical parts; Viton seals
		<b>505HP</b>	500	35		
	Bottom Connection	<b>505BC</b>	300	21	3 gal/h, 11.4 L/h	
		<b>505BCHP</b>	500	35		
<b>506 Series</b> Discharges 3.2 pt, 1514 cc per operation	Top Connection	<b>506</b>	300	21	24 gal/h, 90.8 L/h	All stainless steel models optional <sup>2</sup>
		<b>506HP</b>	500	35		
	Bottom Connection	<b>506BC</b>	300	21	24 gal/h, 90.8 L/h	
		<b>506BCHP</b>	500	35		

<sup>1</sup> Based on one cycle per minute. Drains are designed to operate at one discharge per minute for one year before rebuilding is required. Operation at more than one discharge per minute may require more frequent rebuilding. Maximum capacity is 6 discharges per minute.

<sup>2</sup> Stainless steel models available. Materials of construction are 304SS housing, stainless steel mechanical parts and Viton seals. To designate stainless steel models add SS to model number (e.g. 505SS)

### Dimensions

Model	A		B		Inlet Connection NPT or BSP	Drain Connection	
	in	mm	in	mm		in	mm
<b>505</b>	7	178	8.5	216	.75"	.25	6.35
<b>506</b>	7	178	13.75	349	.75"	.25	6.35





## Timed Electric Drains

Hankison's Timed Electric condensate drains are designed to ensure that manufacturing processes and products do not become contaminated. Every drain is designed to ensure liquid oil and water condensate is discharged from the compressed air stream. System downtime is reduced by eliminating the need to manually drain compressed air lines and equipment.

These drains incorporate a solenoid valve and an electric timer. The timer has two settings: time between valve openings (in minutes) and amount of time the valve stays open (in seconds). By matching these two settings to the amount of condensate a system produces the condensate can be removed from the compressed air system effectively.

The 530 Series electric timed drains provide versatile installation options for your application.

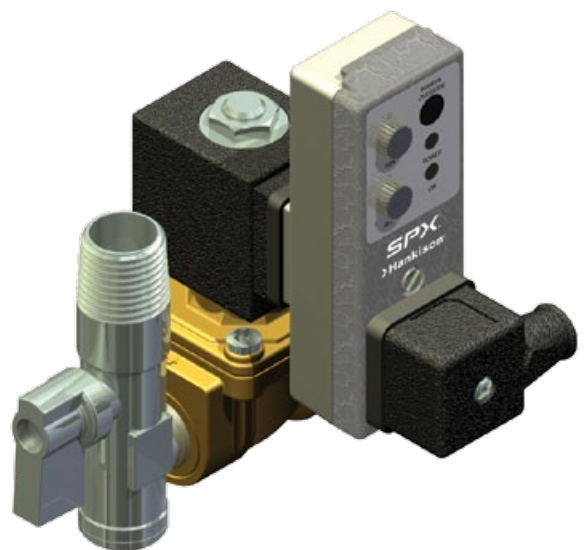
### 531 Series

#### Solid State Timer

- Accurate setting of valve open and valve closed (time between openings) time
- External adjustment knobs
- Test button
- Status lights
  - » Power on (timer energized)
  - » Valve energized

#### Model 531-02-1

- Economical design
- Includes strainer
- Direct acting solenoid valve
- Maximum working pressure:
  - » 175 psig, 12.2 barg
- Discharge port size:
  - » 1/4" in, 6.4 mm



# Electric Timed Drains

## 532 Series

### Features

- Resistant to large particles 1/2" maximum diameter
- Internal pilot operated diaphragm solenoid valve
- High pressure model available: maximum working pressure 1500 psig (105 barg)
- Complete with strainer (not available on the high pressure drain)



### Model 532-03 and 532-04

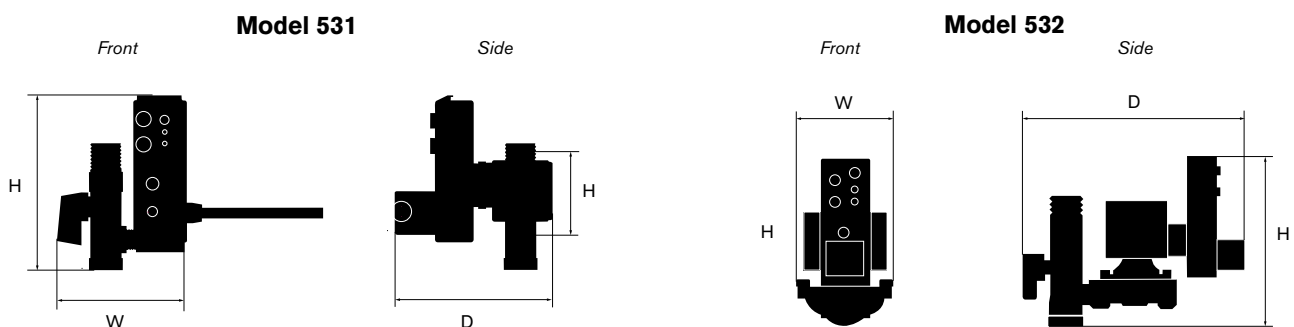
- Maximum working pressure:
  - » 300 psig, (21 barg)
- Discharge port size:
  - » 3/8" in (9.5 mm) for 03 model
  - » 1/2" in (12.7 mm) for 04 model
- Includes combination isolation valve and inlet strainer

## 530 Series Product Specifications

Model	Minimum/Maximum Working Pressure		Maximum Operating Temperature	Available Voltage	Valve Type	Orifice Size		WEIGHT	
	psig	barg				in	mm	lbs	kg
531-02-175	0/175	0/12	138 °C / 280 °F	115/1/60 NEMA 4	Direct Acting	1/8	3.2	3	1.4
532-03-300	5/300	0.3/21	138 °C / 280 °F		Internal Pilot	7/16	11.1	4	1.8
532-04-300	5/300	0.3/21	138 °C / 280 °F	115/1/60 or 230/1/60 NEMA 4	Internal Pilot	7/16	11.1	4	1.8
532-02-1500	5/1500	0.3/103	182 °C / 360 °F		Direct Acting	3/64	1.2	2	0.9

## Dimensions

Model	Connections	DIMENSIONS						
		NPT/BSP	H		W		D	
			in	mm	in	mm	in	mm
531-02-175	1/4"	5	127	2	50.8	6	152	
532-02-300	3/8"	5	127	2	50.8	6	152	
532-04-300	1/2"	5	127	2	50.8	6	152	
532-02-1500	1/4"	5	127	2	101.6	4	102	



Condensate

Management

**SNAP-TRAP®, TRIP-L-TRAP®,  
& Timed Electric Drains**



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