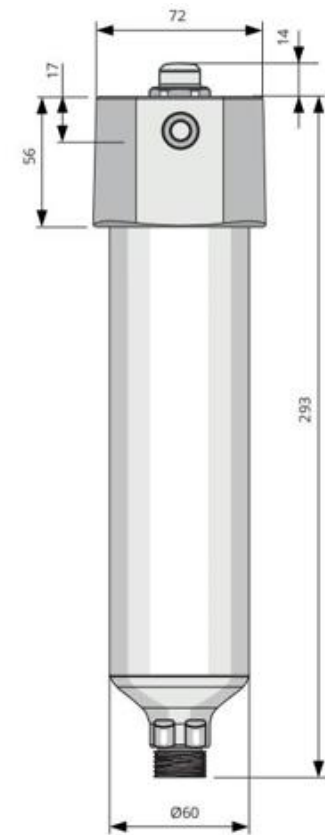


# INSTALL GUIDELINES

CONCRETE & ASPHALT PLANTS

expel<sup>®</sup>

NEW REVOLUTIONARY TECHNOLOGY



original<sup>®</sup>

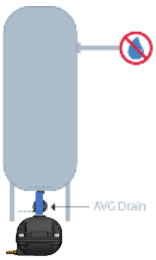


EASY TO INSTALL

MINIMAL MAINTENANCE



EXPEL REQUIRES AN AUTO DRAIN



ALWAYS INSTALL AN AUTO DRAIN ON RECEIVER TANKS

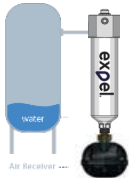
# INSTALL GUIDELINES



ALWAYS USE WITH AN **AUTO DRAIN**



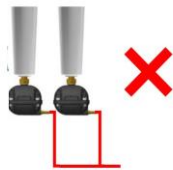
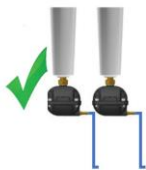
ALWAYS INSTALL **AUTO DRAIN ON RECEIVER TANK**



ALWAYS INSTALL **EXPEL AFTER RECEIVER TANKS**



ALWAYS **REMOVE** OLD FILTER OR INSTALL **EXPEL AFTER AN OLD FILTER**



**DON'T** COMBINE DRAIN OFF TUBING WHEN THERE ARE **MULTIPLE AUTO DRAINS**

## ALWAYS

- Always use with an **auto drain**
- Always install **before** problem area
- Always check the air supply lines
- Always check the Expel specifications
- Always install **after a receiver tank**
- Always **remove old filter** regulator
- Always **ensure air temperature is not likely to change after the Expel unit** before the point of use.
- Always **ensure the ball valve is open**
- Always install at 90-degree angle
- Always check PTFE tape
- Always ensure the internal element is screwed into the head
- Always install no more than 2 meters away from air usage for maximum operating performance

## DO NOT

- Do not install Expel right after compressor
- Do not install Expel before a refrigerant dryer
- Do not install Expel before receiver tank
- Do not install Expel where the inlet air is hot
- Do not install the wrong way round
- Do not combine the drain off pipes from the AVG Auto Drain on the Expel 60M & 90M

## POINTS TO REMEMBER

- Expel is a point of use filter and should be installed as close as possible to the equipment the air is powering
- Expel protects solenoid valves, pumps and rams from contaminated compressed air
- Expel can replace refrigerant air dryers in certain circumstances
- Expel 3: flow rate range 1 - 3 CFM
- Expel 30: flow rate range 4 - 30 CFM
- Expel 60 M: flow rate range 4 - 60 CFM
- Expel 90M: flow rate range 4 - 90 CFM
- Expel has a pressure indicator on top, this only indicates red when the filter is under air pressure.  
Red flag up = Expel under pressure. Red flag down = Expel safe to open and not under air pressure

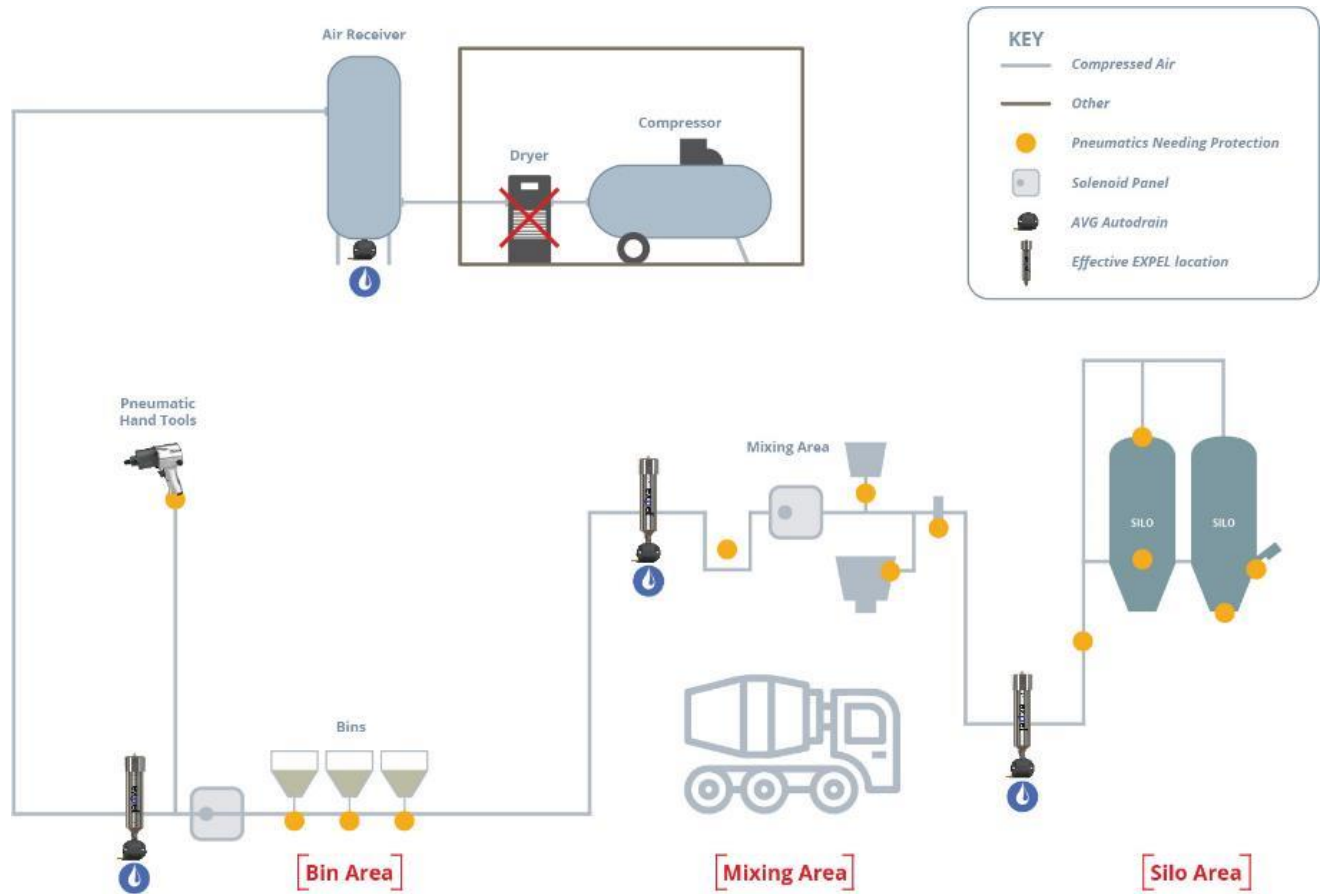
# CONCRETE PLANT EXAMPLE

A site can run without an air dryer if all areas / local air supply lines have Expel units protecting pneumatic equipment.

Expel can run as a stand-alone system OR work alongside an air dryer.

**AVERAGE REQUIREMENT PER SITE**

**EXPTEL 30: 3 - 4 UNITS**  
**AVG AUTO-DRAIN** (for air receiver)



# CONCRETE PLANT

## SOLVE & PREVENT ISSUES CAUSED BY MOISTURE IN THE COMPRESSED AIR

### ✓ EXPEL CHECKLIST BY AREA

	Receiver Tank(s) - AVG Auto Drain
	Silo Area
	Cold Aggregate Bin Area
	Mixing Area
	Air Blaster Cannon
	Diaphragm Pumps
	Other

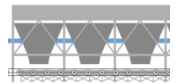
### SILOS:

Top & bottom: stops issues with aeration  
reverse jet filters,  
pneumatic vibrators,  
actuated valves & air  
cannons



### COLD AGGREGATE BINS

Protect pneumatic valves  
& rams



### MIXING AREA:

Protect pneumatic valves  
& rams



### AIR BLASTER CANNON

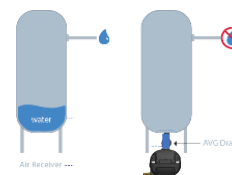
Protect control valves



## AUTO DRAINS

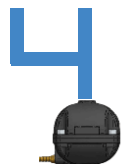
### RECEIVER TANK - IMPORTANT

Automatically remove  
moisture build up



### DRIP LEGS (LOW POINTS)

Drain off points



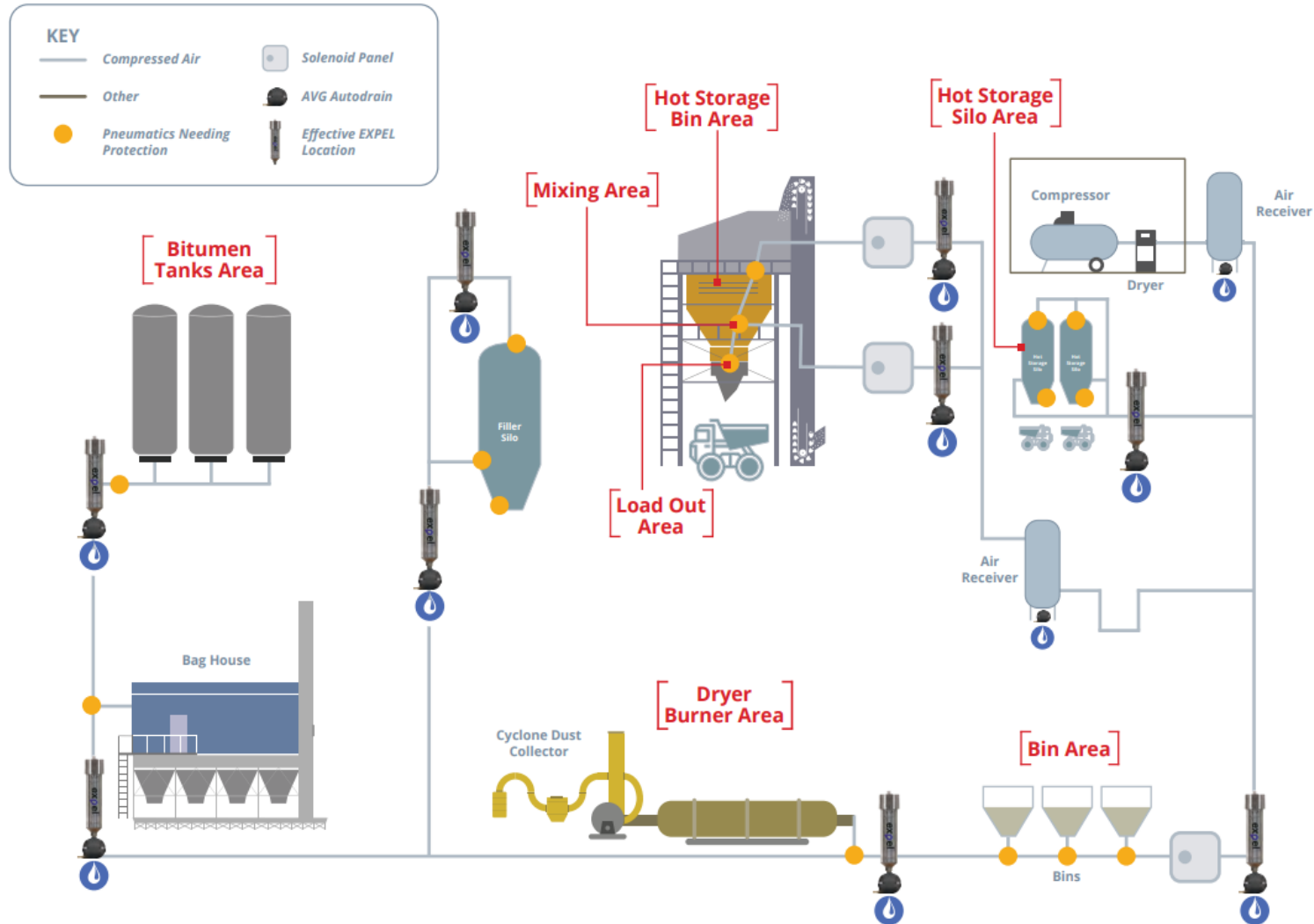
# ASPHALT PLANT EXAMPLE

A site can run without an air dryer if all areas / local air supply lines have Expel units protecting pneumatic equipment.

Expel can run as a stand-alone system OR can work alongside an air dryer as a backup.

## AVERAGE REQUIREMENT PER SITE

- EXPTEL 30: 3 - 8 UNITS
- EXPTEL 60M or 90M: 0 - 1 UNIT
- AVG AUTO-DRAIN (for air receiver)



# ASPHALT PLANT

## SOLVE & PREVENT ISSUES CAUSED BY MOISTURE IN THE COMPRESSED AIR

### ✓ EXPEL CHECKLIST BY AREA

<input type="checkbox"/>	Receiver Tank(s) - AVG Auto Drain
<input type="checkbox"/>	Bitumen area
<input type="checkbox"/>	Hot Storage Bins
<input type="checkbox"/>	Burner
<input type="checkbox"/>	Mixing Deck(s)
<input type="checkbox"/>	Load Out / Skip
<input type="checkbox"/>	Filler Silo (top & bottom)
<input type="checkbox"/>	Dust Collector(s)
<input type="checkbox"/>	Pyrometers (Burner & Mixing Discharge Chute)
<input type="checkbox"/>	Cold Aggregate Bins

**BITUMEN PUMPS**  
Stops them sticking



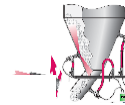
**HOT STORAGE BINS**  
Protect pneumatic valves & rams



**BURNER**  
Protect pneumatic valves & rams



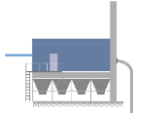
**FILLER SILOS**  
Top & bottom: stops issues with aeration, reverse jet filters, pneumatic vibrators, actuated valves & air cannons



**MIXING AREA**  
Protect pneumatic valves & rams



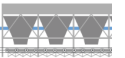
**DUST COLLECTOR / BAGHOUSE**  
Stops filter socks clogging/tearing



**PYROMETER**  
Protect from inaccurate temperature readings



**COLD AGGREGATE BINS**  
Protect pneumatic valves & rams



**AIR BLASTER CANNON**  
Protect control valves

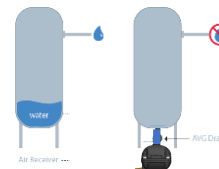


**LOAD OUT / SKIP AREA:**  
Protect pneumatic valves & rams



## AUTO DRAINS

**RECEIVER TANK - IMPORTANT**  
Automatically remove moisture build up



**DRIP LEGS (LOW POINTS)**  
Drain off points





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