



## Index:

<i>Electric Vacuum Systems .....</i>	<i>52-53</i>
<i>Air Operated Systems .....</i>	<i>54</i>
<i>Hose Reels .....</i>	<i>55</i>
<i>Pit Systems .....</i>	<i>56-57</i>
<i>Pit Platform &amp; Lift .....</i>	<i>58</i>
<i>Waste Oil Containers and Trolleys ..</i>	<i>59-61</i>
<i>Suction Pumps .....</i>	<i>62-63</i>
<i>Air Driven Vacuum Pump .....</i>	<i>64-66</i>



## Information

### Waste Oil Handling

The easiest way of collecting waste oil when servicing vehicles is to use a waste oil bowl in a container or in a drum, on a trolley under the vehicle on the lift. To extract waste oil directly through the dip stick hole, waste oil units with suction probes are used. In lubrication pits, waste oil containers on wheels running on the pit rails are another possibility. If the containers can not be emptied by gravity, an air-operated suction pump can be used. The pump can either be mounted on the container or be part of a fixed installation on a wall or floor and connected to the container by a suction hose. The waste oil is usually pumped through pipes to a remote collector tank which is emptied by waste reclamation companies when needed.

**Waste oil is harmful and considered to be a hazardous product, with local authorities having special rules & regulations that have to be observed.**

**We have the knowledge and can help you with solutions.**

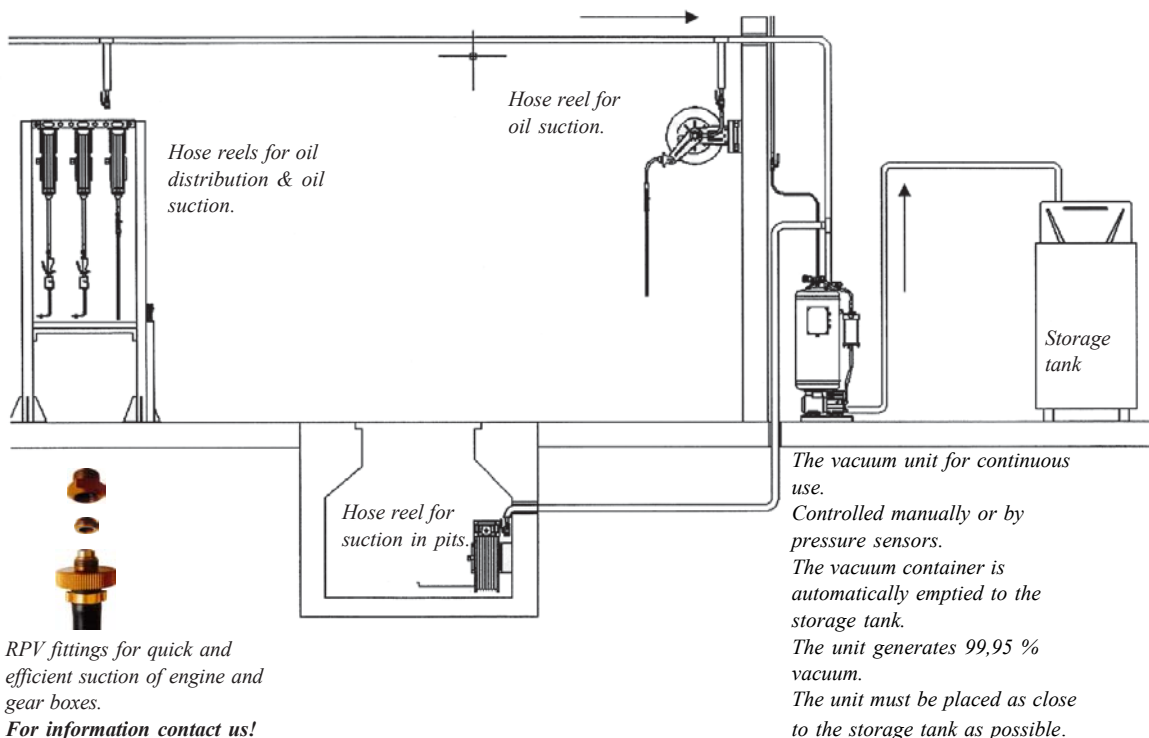
## Electric Vacuum Systems

### THE WASTE OIL SYSTEM THAT NEVER LOSES IT'S POWER!

- Direct from the engine to the storage tank.
- No personal contact with the waste oil.
- No need of mobile equipment.
- Suction probe with quick connections.
- Fixed installation with hose reels.



## Vacuum Systems



### Vacuum unit for 1 to 4 work places.

99,95 % vacuum, for cold (min + 10 °C ) or warm oil.  
70-litre vacuum tank, emptied automatically to the storage tank. Delivered with one control box

**Dimension:** 950 x 650 x 1700 mm  
**Weight:** 150 kg  
**Engine power:** 750 w  
**Electric:** 230 V 1 phase.  
**Sound level:** 62 dBA

C8V07A

Extra control box, for additional work places.

CB8



### Vacuum unit for 2 to 7 work places.

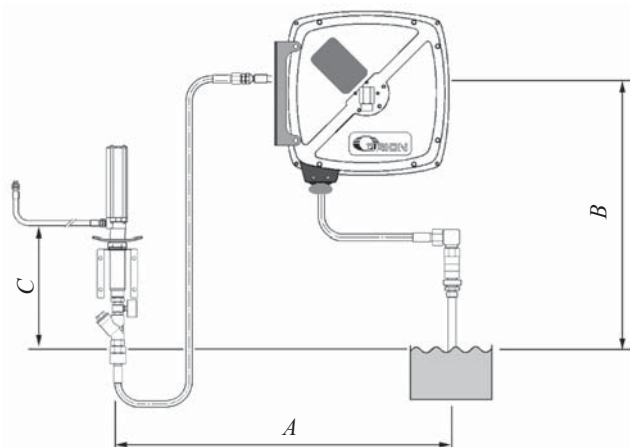
99,95 % vacuum, for cold (min + 10 °C ) or warm oil.  
500-litre vacuum tank, emptied automatically to the storage tank. Automatic start/stop by pressure sensor.

**Dimension:** 700 x 1100 x 2200 mm  
**Weight:** 220 kg  
**Engine power:** 750 w  
**Electric:** 400 V 3 phase.  
**Sound level:** 60 dBA

E25V50A



## Installation of Suction Pumps



### Installation of Suction and Waste Oil Pump, 22702/4

For maximum efficiency, the pump should be installed as close as possible to the suction point at the same level as the liquid. Installing the pump in any another way will increase the emptying time. The drawing above shows an installation with acceptable capacity and emptying time.

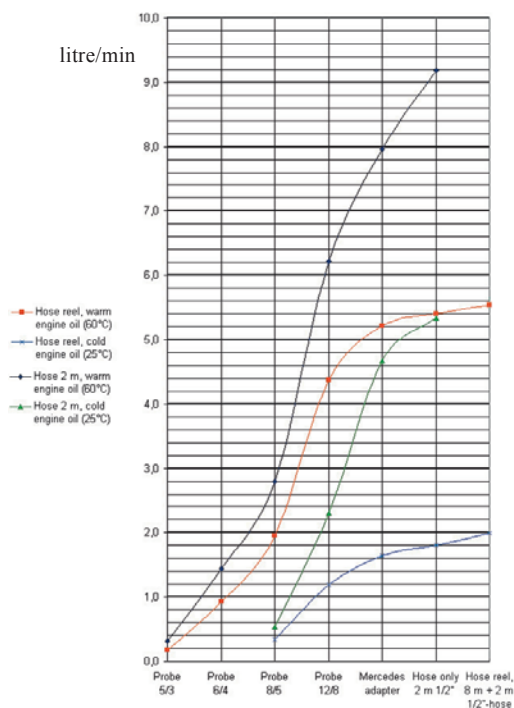
**A** Max recommended length between pump and suction point incl. hose reel: **12 m**

**B** Max recommended suction height, from liquid level to hose reel centre: **2,5 m**

**C** Max recommended distance, between pump outlet and liquid level: **1 m**

*A non return valve at the pump outlet is recommended.*

### Capacity Chart



Probe 5/3 means: outside diameter  $\varnothing$  5 mm  
inside diameter  $\varnothing$  3 mm

### Waste Oil Suction Kit with Suction Probes and Hose Reel

Complete kit to drain waste oil using probes. The kit includes the following: hose reel, suction pump 22702/4, wall bracket, quick coupling with suction probes 2295014, suction strainer with vacuum gauge and air quick coupling. Capacity when using  $\varnothing$ 8 mm suction probe (engine oil +60°C): 2 l/min.

#### Description

Waste oil suction kit with suction probes and hose reel

SPEC6044

Probe bracket, to be mounted on the wall

28291



### Waste Oil Suction Kit with Suction Probes

Complete kit to drain waste oil using probes. The kit includes the following: 2 m 1/2" hose, suction pump 22702/4, wall bracket, quick coupling with suction probes 2295014, suction strainer with vacuum gauge and air quick coupling. Capacity when using  $\varnothing$ 8mm suction probe (engine oil +60°C) 2,8 l/min.

#### Description

Waste oil suction kit with suction probes

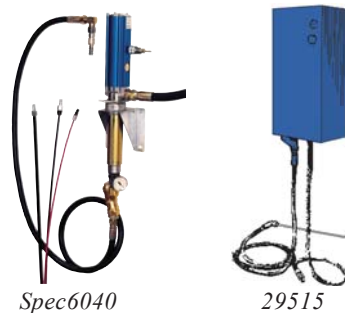
SPEC6040

Cased waste oil suction kit with 4 metre hose and suction probes

29515




Probe bracket, to be mounted on the wall

28291



Spec6040

29515

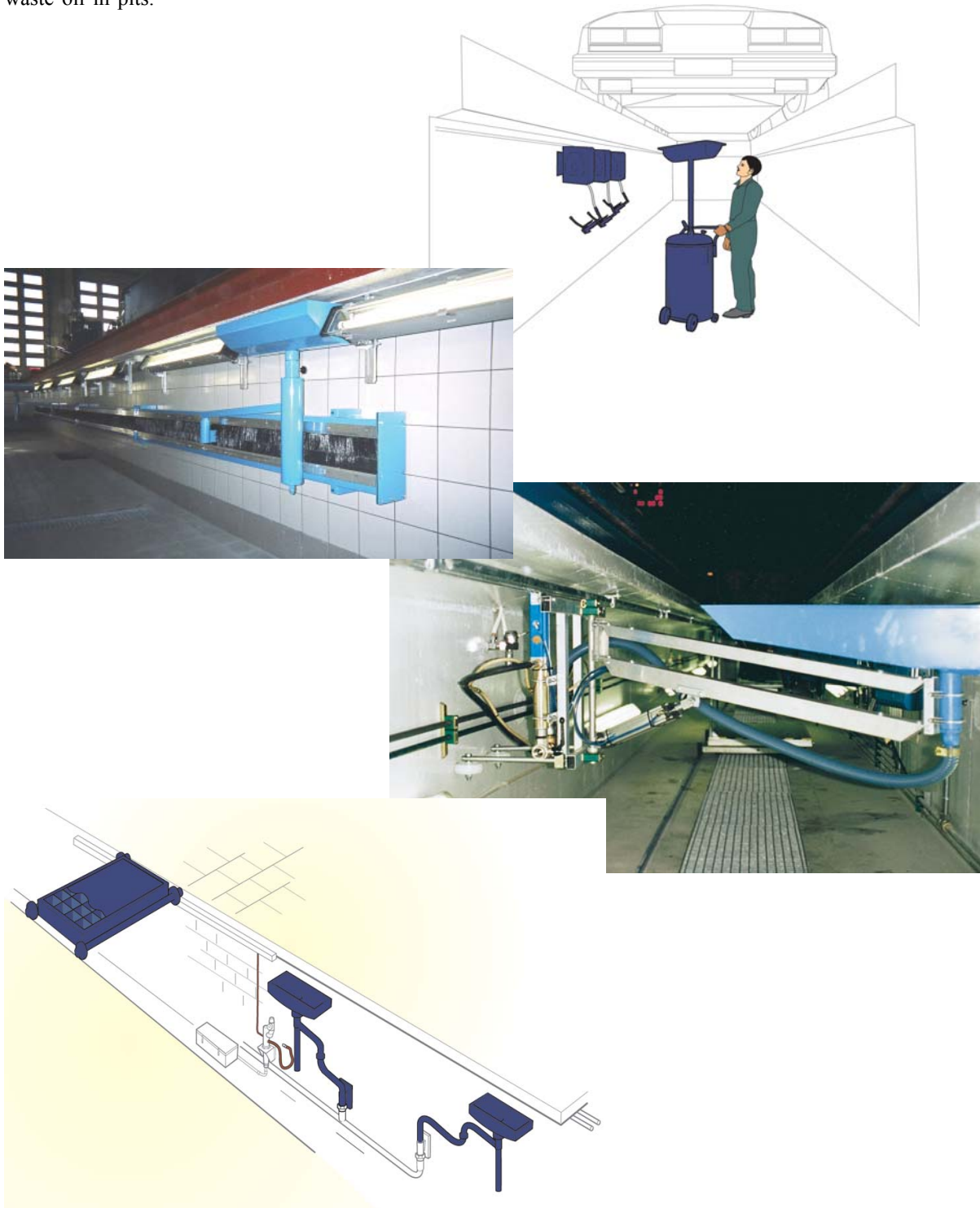
Hose Reels for Waste Oil Suction			Part.No
<b>Hose Reel for Waste Oil Suction</b> Open hose reel, series ORK. Delivered with a nozzle for quick connection/change of the probes.			
<b>Description</b>	<b>Hose diam.</b>	<b>Hose lengths (metres)</b>	
Hose Reel ORK	1/2"	10	
Hose Reel ORK	1/2"	6	
Hose Reel ORK	3/4"	6	24472
<b>Hose Reel for Waste Oil Suction</b> Cased hose reel, CR Series. Delivered with a handle for quick connection/change of the probes.			
<b>Description</b>	<b>Hose diam.</b>	<b>Hose lengths (metres)</b>	
Hose Reel CR	1/2"	10	
Hose Reel CR	1/2"	6	
Hose Reel CR	1/2"	6	24481
<b>Hose Reel for Waste Oil Suction</b> Cased hose reel, MR Series. Delivered with a handle for quick connection/change of the probes.			
<b>Description</b>	<b>Hose diam.</b>	<b>Hose lengths (metres)</b>	
MR Series	1/2"	10 m	
MR Series	1/2"	6 m	
MR Series	3/4"	5 m	24492
<b>For optimum capacity, always choose the largest diameter and the shortest possible length of hose!</b>			



## Pit Equipment

**Waste oil handling in pits**

The illustrations show different solutions for handling waste oil in pits.



## Automatic Waste Oil Equipment

## Part.No

This system is designed for use in lubrication pits but can also be used with lifts. The collector arm is connected to the drain bowl (24555). Oil is gravity fed into a 25 litre tank with a float switch, which controls the air supply to the discharge pump. When maximum level is reached in the 25 litre tank the air operated pump starts and the waste oil is pumped to a remote container tank.

### Collection Bowl for cars

Swivel arm collector bowl with adjustable height and strong swivel joints. Constant flow rate independent of bowl height.

Description	Bowl dimension	Capacity	Connection thread
Collection bowl	700 x 250 mm	approx. 18 litre	G 1 1/2" (f)

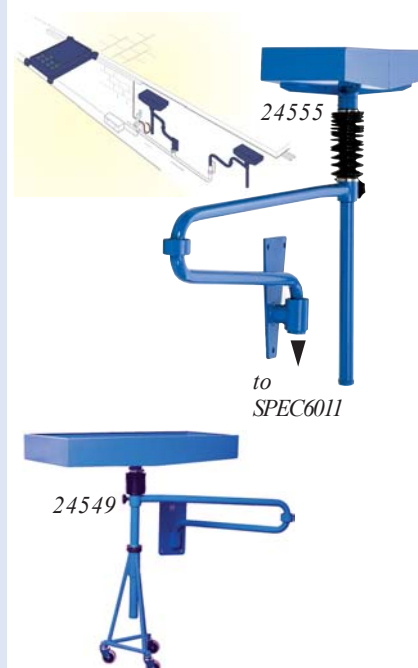
24555

### Collection Bowl for Commercial Vehicles

Complete set, with swing arm and support bar on castors.

Description	Bowl dimension	Capacity	Connection thread
Collection bowl	1000x400 mm	approx. 50 litre	G 1 1/2" (f)

24549



### Waste oil collection bowl on rails

We have different solutions for waste oil handling in pits.

The pictures show solutions using an air operated height adjusted bowl on a rail and one with an open rail solution.



### Contact us for information!

### Waste Oil Unit for Pit Use

With adjustable wheels for mounting on pit rails. The unit can be emptied by a pump system, 29068 must be fitted with a quick coupling set (29108) for easy connection of the discharge hose.

Description	Volume (approx.)	Dimension (L x W x H)	Weight (approx.)
Waste oil unit for pit use, compl. with quick coupling set	90 litre	1030-1450 x 820x460 mm	45 kg

29068

Quick coupling set, must be used when emptied using discharge pump.

29108



### Automatic Emptying Unit

The automatic emptying unit consists of a 25 litre collector tank with float switch and an air operated (1:1) transfer pump with wall bracket and all necessary oil and air line accessories.

Description	Connection threads
Automatic emptying unit	Pump: Air inlet G1/4" (f)
	Oil outlet G3/4" (f)
	Oil inlet G1" (f)
	Tank: Oil outlet (from 24555) G1 1/2" (f)
	Oil outlet (to pump) G1" (f)

SPEC6011



## Pit Platform and Lift

## Part.No

**Pit Platform**

The pit platform runs on a rail fixed to the pit floor and is height adjustable, enabling ease of access to all the places under the vehicle. Driven by compressed air it has the capacity to lift a person and tools. Standard accessories include a tool tray, air connection and brake. Safety features include trap protection.

Description	Lift capacity		WxD
	height	weight	
Pit Platform	670mm	200 kg	1200 x 840 mm

64000

**Hydraulic Pit Lift**

Hydraulic pit lift for heavy transport vehicles. The carriages are manufactured for all types of inspection pits (ask for a form to submit your pit dimensions).

Three modes of operation: Neutral, fast moving and lifting mode. When released the valve automatically returns to neutral mode and the lift is locked in the existing height mode.

Min height above floor:	100 mm
Hoist travel:	500 mm
Lifting time:	appr. 40 sec.

The lift can be supplied with a piston extension for lifts up to 900 mm.

Description	Capacity	Max air pressure
Hydraulic Pit Lift	15 000 kg	8 bar

64010





## Mobile Waste Oil Units With Bowl

## Part.No

### Waste Oil Units

Waste oil units for gravity collection of motor and gear oil into a 20 litre bowl. All units can be used underneath lifts or in pits.

The unit can be discharged by gravity, air pressure or be emptied by a pump on the unit or externally placed.

Discharge by air pressure is carried out through a 2m hose with the unit connected to a tyre inflator. A safety valve ensures that the pressure never exceeds 0,5 bar.

Some of the units can be used for pneumatic suction through suction probes. Vacuum is generated by an ejector on the unit, driven by 7- 10 bars air pressure. Once the vacuum is generated they can be used without being connected to the airline.

The vacuum unit can be fitted with a transparent 10 litres container, to measure the volume of oil evacuated.

Vacuum units are delivered with a probe kit comprising a probe holder, Mercedes adapter, VAG adapter, BMW adapter, two plastic probes 700 mm long  $\varnothing$  6 and 8 mm, two metal tubes 700 mm long  $\varnothing$  5 and 6 mm and a 1200 mm long plastic probe  $\varnothing$  8 mm. All units are suitable for all non-corrosive fluids.

*NOTE! Do not use for volatile or highly inflammable liquids like petrol (gas).*

### 100 litre Waste Oil Container with a unique bowl design

The container is fitted with an asymmetric swivelling bowl with a specially designed anti splash mesh. The top of the container has a fixed tray for tools, washers, oil plugs etc. The base has a special outlet hose holder.

Description	Dimension (W x D x H)	Weight
Waste Oil Container	630 x 500 x 1500- 2000 mm	28 - 33 kg

#### Description

Waste Oil Container, Standard.

Waste Oil Container with ejector and suction probes

Waste Oil Container with ejector, suction probes and transparent vacuum chamber

Waste Oil Container with air operated pump for suction and pumpaway, suction probes included.

### Accessories for the 295 and 294 series Units

#### Description

Probe Kit comprising a probe holder, Mercedes adapter, VAG adapter, BMW adapter, two plastic probes 700 mm long  $\varnothing$  6 and 8 mm, two metal tubes 700 mm long  $\varnothing$  5 and 6 mm and a 1200 mm long plastic probe  $\varnothing$  8 mm.

Quick Coupling Kit, to be used when emptied using an external discharge pump.



29505



29507



29508

29505

29507

29508

29506



2295014



2295017

2295014

2295017

## Mobile Waste Oil Units With Bowl

## Part.No

**Waste Oil Units**

Waste oil units for gravity collection of motor and gear oil into a 20 litre bowl. All units can be used underneath lifts or in pits.

The unit can be discharged by gravity, air pressure or be emptied by a pump on the unit or externally placed.

Discharge by air pressure is carried out through a 2m hose with the unit connected to a tyre inflator. A safety valve ensures that the pressure never exceeds 0,5 bar. Some of the units can be used for pneumatic suction through suction probes. Vacuum is generated by an ejector on the unit, driven by 7- 10 bars air pressure. Once the vacuum is generated they can be used without being connected to the air line.

The vacuum unit can be fitted with a transparent 10 litres container, to measure the volume of oil evacuated.

Vacuum units are delivered with a probe kit comprising a probe holder, Mercedes adapter, VAG adapter, BMW adapter, two plastic probes 700 mm long  $\varnothing$  6 and 8 mm, two metal tubes 700 mm long  $\varnothing$  5 and 6 mm and a 1200 mm long plastic probe  $\varnothing$  8 mm. All units are suitable for all non-corrosive fluids.

*NOTE! Do not use for volatile or highly inflammable liquids like petrol (gas).*

**65 Litre Waste Oil Container with a Bowl**

Small efficient unit, just what you need, perfect for the small garage.

Accessories are the same as for the 100 litre unit.

**Description**

Waste Oil Container, Standard.

Waste Oil Container with ejector and suction probes

Waste Oil Container with ejector, suction probes and transparent vacuum chamber

Waste Oil Container with air operated pump for suction and pumpaway, suction probes included.

29405

29407

29408

29406

**24 Litre Mobile Waste Oil Suction Unit**

24 Litres capacity waste oil suction unit with 2 m oil suction hose.

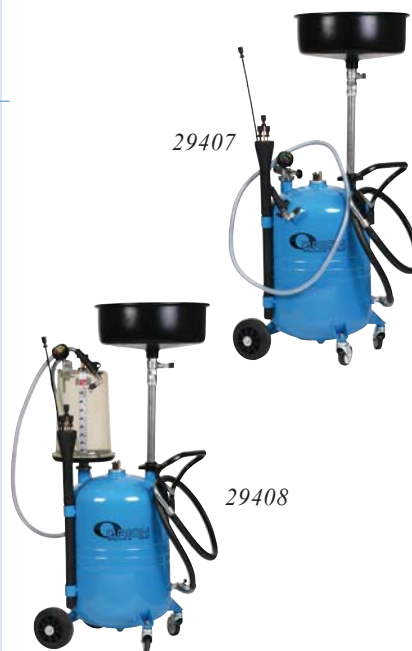
**Description**

Waste Oil Container with ejector and suction probes

29049



29405



29407



29408



Waste Oil Equipment				Part.No
<b>Basic Waste Oil Unit</b> 95 litre capacity waste oil unit with approx 20 litre capacity adjustable height collector bowl. With the addition of various accessories to the base unit, a number of models are available, including gravity discharge, pump away, wall pump discharge and dipstick suction units.				 29521  29526   29527  29528  29529
<b>Description</b> Waste oil unit	<b>Dimension (L x W x H)</b> 600 x 550 x 1150-1750 mm	<b>Weight</b> 25 kg		
<b>Complete Waste Oil Units</b> <b>Description</b> 29520 with gravity discharge through a valve and angled outlet tube 29520 with quick coupling nipple. Emptied with SPEC 6025 or 6026. 29520 with pump and quick coupling nipple. As 29527 with waste oil outlet hose included. As 29527 with waste oil outlet hose and air connection kit included. As 29528 with alternatively as a dip stick suction unit using the probe facility.				29521 29526 29527 29528 29529 29527/BT
<b>Waste Oil Bowl for Drums</b> Waste oil bowl, with adjustable bung adapter, G2" (male), suitable for mounting in a 200 l or 60 l drum.				 26502
<b>Description</b> Waste oil bowl	<b>Adjustable height</b> approx. 600 mm	<b>Bowl volume</b> approx. 20 litre	<b>Weight</b> 5 kg	
<b>Low level Mobile Drainer (95 Litre)</b> Gravity drain collection unit which is discharged using a wall mounted pump kit and quick coupling set.				 29075 29108
<b>Description</b> Low level mobile drainer,	<b>Volume (approx.)</b> 95 litre	<b>Dimension (L x W x H)</b> 1250x610x260 mm	<b>Weight (approx.)</b> 44 kg	
<b>Collection and Refilling Unit for Coolants</b> Suitable for draining and refilling the same liquid after completing the service. Consists of a low level waste oil unit (29075), liquid pump (22720), strainer (28022), hoses and necessary accessories.				 29004
<b>Description</b> Collection unit	<b>Volume (approx.)</b> 95 litre	<b>Dimension (L x W x H)</b> 1250x610x260 mm	<b>Weight (approx.)</b> 53 kg	
<b>"Filter rug"</b> 30 mm (1 1/4") thick, for use in waste oil bowls to prevent splatter and contamination entering the discharge pump.				29139  1060 mm (42") 400 mm (16")  Structure

## Suction &amp; Waste Oil Pumps

## Part.No

**Suction & Waste Oil Pumps 1:1 & 5:1**

Double acting, air operated oil pumps for non-corrosive liquids, waste oil etc. For wall or floor installation, the pumps are designed to create maximum vacuum and will not race when there is no liquid in the suction side. Recommended when you can't control the pumping process or when using suction probes. **In other cases use the standard oil pumps (Refer to the oil section).** Bung adapter G2" (m) included (part no 28595).

**Pressure ratio:** 22702/4 1:1  
22575/4 5:1

**Capacity** 22702/4 Max 18 l/min. , free flow, air press.  
1,0 MPa (10 bar)  
22575/4 Max 38 l/min. , free flow, air press.  
1,0 MPa (10 bar)

**Air pressure** Max 1 MPa (10 bar)

**Connections** Air: G1/4" (f)  
Oil: Inlet G3/4" (f)  
Outlet G1" (f)

**Weight** 22702/4 - 2,8 kg  
22575/4 - 4,9 kg

*NOTE! Do not use for volatile or highly inflammable liquids like petrol (gas).*

22702/4  
22575/4

**Suction & Waste Oil Pump 2:1**

Double acting, air operated oil pump for non-corrosive liquids, waste oil etc. For wall or floor installation, the pump is designed to create maximum vacuum and will not race when there is no liquid in the suction side.

**Pressure ratio:** 22780 2:1

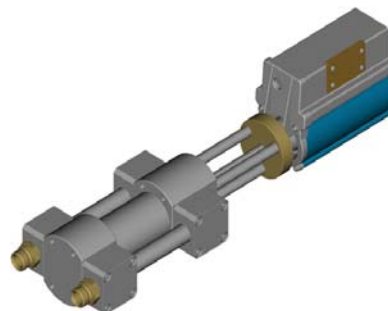
**Capacity** Max 60 l/min. , free flow, air press. 1,0 MPa (10 bar)

**Air pressure** Max 1 MPa (10 bar)

**Connections** Air: G1/4" (f)  
Oil: Inlet G3/4"  
Outlet G3/4"

**Weight (approx.)** 10 kg

22780




**Pump Timer**

With the timer installed in the air supply line it is possible to put in a running time for the pump, to increase the lifetime on the pump, by reducing the time where the pump is running without liquid. The timer can be set between 0- 120 minutes.

**Description** Connection Threads Max.work pressure Weight  
Pump timer In: G1" or G3/4" or G1/2"(f) 8 bar 0,2 kg  
Out: G3/4" (m)

23008



Installation Kits and Accessories		Part.No
<b>Non Return Valve</b> Connects to the pump outlet. Connection G3/4”(f).		28295
<b>Suction Strainer with Vacuum Gauge</b> Used to prevent dirt and larger particles from entering the pump and causing damage or malfunction. The gauge indicates that the correct vacuum has been reached and also when the suction is finished. Connection G1”.		28631
<b>Wall Mounted Pump Installation Kit</b> Components for a wall mounted air operated oil pump, non return valve and strainer included.  <i>NOTE! Pump not included.</i>  Select a pump 22700, 22702/4 or 22575/4.		99631
<b>Floor Mounted Pump Installation Kit</b> Components for a floor mounted air operated oil pump, non return valve and strainer included.  <i>NOTE! Pump not included.</i>  Select a pump 22700, 22702/4 or 22575/4.		99632
<b>Hand Operated Suction Unit</b> For evacuating up to 4 l of liquid using a pre-pumped vacuum. Ideal for evacuating motor oil from lawnmowers, or other liquids from hard-to-access areas. Tank can be emptied into a collection tank after the pump is disconnected. Tank, hose and suction probe made of high-quality plastic, pump tube and control valve made of brass. With vacuum meter. Max liquid temperature +30°C.		 
<b>Description</b> Suction unit	<b>Volume</b> 4 litres	
<b>Working Pressure</b> - 0,7 bar vacuum	<b>Pressure Generator</b> Hand pump	
<b>Weight</b> 1, 4 kg		3253P
<b>Suction Pump</b> For filling and emptying small containers, gear boxes etc.		
<b>Description</b> Suction pump	<b>Volume</b> 500 cm <sup>3</sup>	
Suction pump	800 cm <sup>3</sup>	



## Vacuum Pump

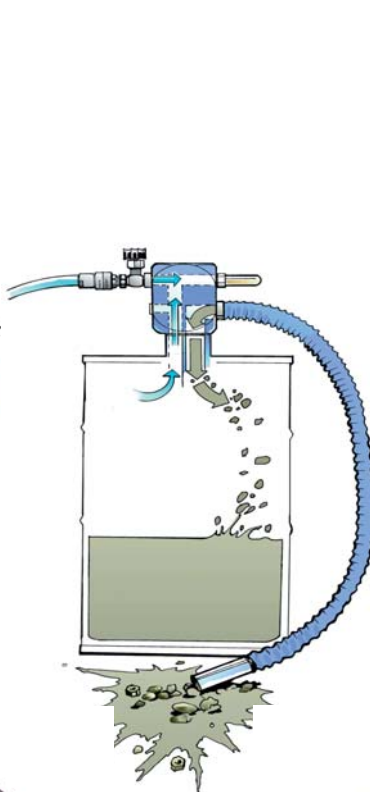
### Air Operated Vacuum Pump/Liquid Pump





A reliable drum mounted vacuum pump for fast emptying of cutting fluids, paint sludge, water, waste oil etc. from machine tools, spray booths, engines or other machines. The vacuum is easily adjusted with a needle valve and is indicated on a gauge. When the drum is full, the pump stops automatically and an indicator shows current status.

### Vacuum Pump, basic model

Basic model, (22582) comprising pump body and bung adapter only, for mounting in drums or tank with G2" (f) thread.

Description	Dimension	Air consumption	Connection
Vacuum pump, basic model	170 x 170 x 70 mm	approx. 60 l/min	Air: G1/4" (f) Suction hose: ø25 mm



Vacuum Pump		Part.No	
<b>Vacuum Pump with Air Connection Kit</b> Vacuum pump (22582) complete with air connection kit (22587).			
<b>Description</b> Vacuum pump, with air connection kit	<b>Connection</b> Air: 1/4" hose socket	22584	
<b>Vacuum Pump with Suction Hose</b> Vacuum pump (22582) complete with suction hose (22588).			
<b>Description</b> Vacuum pump, with suction hose	<b>Connection</b> Air: G1/4" (f)	22585	
<b>Vacuum Pump with Air Connection Kit and Suction Probes</b> Vacuum pump (22582) complete for evacuating oil through suction probes inserted into the crankcase, gearbox, etc. Complete with air connection kit (22587), suction hose (2295000) & probe kit (29502).			
<b>Description</b> Vacuum pump, with suction hose, air connection kit and suction probes	<b>Connection</b> Air: 1/4" hose socket	22586	
<b>Accessories for Vacuum Pump</b>			
<b>Pos</b>	<b>Description</b>	<b>Remark</b>	
A	Air connection kit	Consisting of shut-off valve, gauge, nipple, quick coupling and hose clamp	
B	Suction hose	Consisting of hose (ø25 mm, length 2,2 m) and aluminium tube length 200 mm	
C	Suction probe kit	Consisting of handle with three suction probes (ø 6, 8 and 12 mm) length approx. 800 mm and Mercedes' adapter Connection thread in the handle G3/8" (f)	
D	Suction hose	To be used with suction probe kit (29502) Connection threads G3/4" (m) - G3/8" (m)	
E	Suction tube	Aluminium, length approx. 1 m	
F	Gauge	Indicates vacuum, 0 to -1 bar	
G	Bung adapter	To be used when the vacuum pump is frequently moved between different containers	
-	Adapter	For mounting of handle (C) on suction hose (B). Connection G3/8" (m)-ø25 mm	
-	Suction probe bracket	Probe bracket, to be mounted on the wall	

## Vacuum Pump

## Part.No

**OriDrain - Mobile Suction Drain Unit**

This unit can be used to drain most fluids - even heavily contaminated - from machinery, engines, gear boxes, coolant containers, etc. The unit consists of a 36 litre polyethylene container, an aluminium stand with wheels and a vacuum pump 22585. The pump stops automatically when the container is full. The container can be emptied by pouring out the fluid or by moving the vacuum pump to an empty drum and using it to drain the liquid. Max. working temperature +60°C, temperature may be allowed to reach +90°C for a short period.

Description	Dimension (W x D x H)	Air con- sumption (approx.)	Volume (approx.)	Weight (approx.)	
OriDrain	380x280x950 mm	60 l/min.	36 litre	8,5 kg	29510
OriDrain w. probe kit (29502)	380x280x950 mm	60 l/min.	36 litre	8,5 kg	29511

**Portable Suction Drain Unit, OriCan**

This unit can be used to drain most fluids - even heavily contaminated - from machinery, engines, gear boxes, coolant containers, etc. The unit consists of an air operated vacuum pump 22585, fitted to an OriCan container made of polyethylene, with carrying handle and ø100 mm filling hole. Including 2,2 m suction hose (22588). Suction capacity max. 60 l/min. (water) Max. vacuum 50%. Max. temperature +60°C.

Description	Dimension (W x D x H)	Air con- sumption (approx.)	Volume (approx.)	Weight (approx.)	
OriCan, vacuum pump	150 x 385 x 600 mm	60 l/min.	16 litre	4,3 kg	22590

**Accessories OriCan**

Description	Volume (approx.)	
OriCan, container only	approx. 16 litre	1085112
Pump adapter, G 2" (f) - G2" (f)		1085076