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BAMBI

ISO 9001 CERTIFIED

EXTERNALLY TESTED TÜV SÜD

MADE IN BRITAIN

Operating manual

MODELS: VT75, VT150, VT200, VT250, VT300, VT400, VT75D, VT150D, VT200D, VT250D, VT300D, VT400D

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01. Introduction

Your Bambi Air Compressor is a precision engineered product.
By following these simple steps, you will ensure years of trouble-free use.

Parts & Service are available from your Bambi dealer.

It is important to quote model, type and serial number in all communications.

The substitution of parts not manufactured nor approved by Bambi can impair performance, service life and create potential mechanical or personal hazards and invalidate your warranty.

Bambi reserves the right to modify the contents of this operating booklet without notice and the information is in no way binding on the company.

02. Range overview

	VT75 / VT75D	VT150 / VT150D
Free air delivery @5 Bar	58 L/Min	125 L/Min
Motor power	0.75 HP / 0.55 kW	1.5 HP / 1.1 kW
Tank size	24 Ltr	50 Ltr

	VT200 / VT200D	VT250 / VT250D
Free air delivery @5 Bar	158 L/Min	210 L/Min
Motor power	2.0 HP / 1.5 kW	2.5 HP / 1.84 kW
Tank size	50 Ltr	59 Ltr

	VT300 / VT300D	VT400 / VT400D
Free air delivery @5 Bar	250 L/Min	316 L/Min
Motor power	3.0 HP / 2.2 kW	4.0 HP / 3.0kW
Tank size	100 Ltr	100 Ltr

Please refer to our website for free air delivery at varying pressures

03. UK declaration of conformity

Bambi Air Limited

152 Thimble Mill Lane, Heartlands, Birmingham, B7 5HT, United Kingdom
T: +44 121 322 2299 | **E:** sales@bambi-air.co.uk

UK Declaration of Conformity - Déclaration de Conformité UK - UK Konformitätserklärung - Declaración de Conformidad UK - UK Verklaring van Overeenstemming

Bambi Air Limited declares that this product conforms to the UK Regulations listed below.

Bambi Air Limited déclare que ce produit est conforme aux réglementations du Royaume-Uni énumérées ci-dessous.

Bambi Air Limited declara que este producto cumple con las regulaciones del Reino Unido que se enumeran a continuación.

Bambi Air Limited verklaart dat dit product voldoet aan de onderstaande regelgeving van het Verenigd Koninkrijk.

Bambi Air Limited erklärt hiermit, dass dieses Produkt den nachstehend aufgeführten Vorschriften des Vereinigten Königreichs entspricht.

Supply of Machinery (Safety) Regulations 2008; Pressure Equipment (Safety) Regulations 2016; Simple Pressure Vessels (Safety) Regulations 2016; Electromagnetic Compatibility Regulations 2016; Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012, as amended.

EN 1012-1:2010; EN 60947-4-1:2019; EN 60204-1:2018; EN 61000-6-2:2019; EN 61000-6-4:2019; EN IEC 61000-3-2:2019 + A1:2021; EN 61000-3-3:2013 + A1:2019 + A2:2021; EN ISO 12100:2010; EN ISO 13857:2019; EN IEC 60034-1:2022.

IF NO SERIAL NUMBER HERE THEN HANDBOOK ISSUED AS REPLACEMENT OR WITH SERVICE KIT

Ben Suquet
Director

04. EU declaration of conformity

Bambi Air Limited

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CE

EC Declaration of Conformity - Déclaration de Conformité CE - EG Konformitätserklärung - Declaración de Conformidad CE - EG Verklaring van Overeenstemming

Bambi Air Limited declares that this product conforms to the European Directives listed below.

Bambi Air Limited déclare que ce produit est conforme aux directives européennes énumérées ci-dessous.

Bambi Air Limited declara que este producto cumple con la Directivas Europeas enumeradas a continuación.

Bambi Air Limited verklaart dat dit product voldoet aan de onderstaande Europese Richtlijnen.

Bambi Air Limited erklärt hiermit, dass dieses Produkt den nachstehenden EU-Richtlinien entspricht.

Machinery Directive 2006/42/EC; Electromagnetic Compatibility Directive 2014/30/EU; Simple Pressure Vessels Directive 2014/29/EU; Pressure Equipment Directive 2014/68/EU; RoHS Directive 2011/65/EU, as amended by Directive (EU) 2015/863.

EN 1012-1:2010; EN 60947-4-1:2019; EN 60204-1:2018; EN 61000-6-2:2019; EN 61000-6-4:2019; EN IEC 61000-3-2:2019 + A1:2021; EN 61000-3-3:2013 + A1:2019 + A2:2021; EN ISO 12100:2010; EN ISO 13857:2019; EN IEC 60034-1:2022.

Ben Suquet
Director

05. Warranty

Provided the operating instructions have been followed and the compressor has been properly maintained, Bambi VT compressors are guaranteed against faulty workmanship for a period of 24 months from the date of purchase. This warranty is strictly conditional on the completion of all preventative maintenance as detailed in the product handbook. Maintenance must be carried out in accordance with the advised schedule, or sooner, depending on usage frequency. Failure to perform the required maintenance will result in the warranty being void. This warranty does not cover damage caused by misuse, the use of incorrect parts or modifications.

06. Preventative maintenance

Maintenance operations	Weekly	Annually	2 yearly
Drain air receiver	✓		
Replace air intake filter		✓	
Check pressure relief activation		✓	
Check piston ring		✓	
Clean ventilation grilles		✓	
Clean Aftercooler Fins (dryer models)		✓	
Replace Air Dryer Filter			✓
Desiccant Change			✓
Change Centrifugal Filter Element			✓

07. Electrical connections

Where applicable, compressors are supplied with a moulded plug in accordance with national standards. Never remove the moulded plug. Ensure the machine is connected to a fused electrical circuit with a breaker. The use of extension cables is not recommended as this may cause voltage drops which can result in damage to the motor. If required, fit a separate emergency stop button for additional safety precautions. VT250D, VT300, VT300D, VT400 and VT400D models must be connected to a dedicated fused 20 amp supply.

THREE PHASE UNITS REQUIRE NEUTRAL SUPPLY

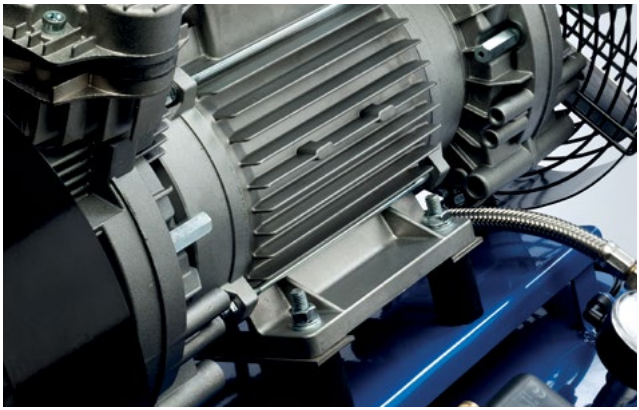
Models		220-240 volts	380 volts
Wired in accordance with		European standard	European standard
Wiring		Blue = Neutral	White = Neutral
		Brown = Live	Brown = Live 1
		Yellow/Green = Earth	Black = Live 2
			Grey = Live 3
			Yellow/Green = Earth

08. Technical specification

VT75/VT75D Specification	Single phase
Motor Power	0.75 HP / 0.55 kW
Max Pressure	8 Bar
Noise Level [1]	74 dB(A)
Current	5 Amps
Voltage	220-240V [2]
Connection	UK plug [3]
Weights	29 kg
Dimensions	63 x 51 x 41 cm
Frequency	50 Hz
Displacement @ 5 Bar	58 L/min
Tank size	24 Ltr

VT150/VT150D Specification	Single phase	Three phase
Motor Power	1.5 HP / 1.1 kW	1.5 HP / 1.1 kW
Max Pressure	8 Bar	8 Bar
Noise Level [1]	78 dB(A)	78 dB(A)
Current	7 Amps	3.7 Amps
Voltage	220-240V [2]	380-415V
Connection	UK plug [3]	Hardwired [4]
Weights	40 kg	51 kg
Dimensions	87 x 51 x 41 cm	87 x 52 x 49 cm
Frequency	50 Hz	60 Hz
Displacement @ 5 Bar	125 L/min	125 L/min
Tank size	50 Ltr	50 Ltr

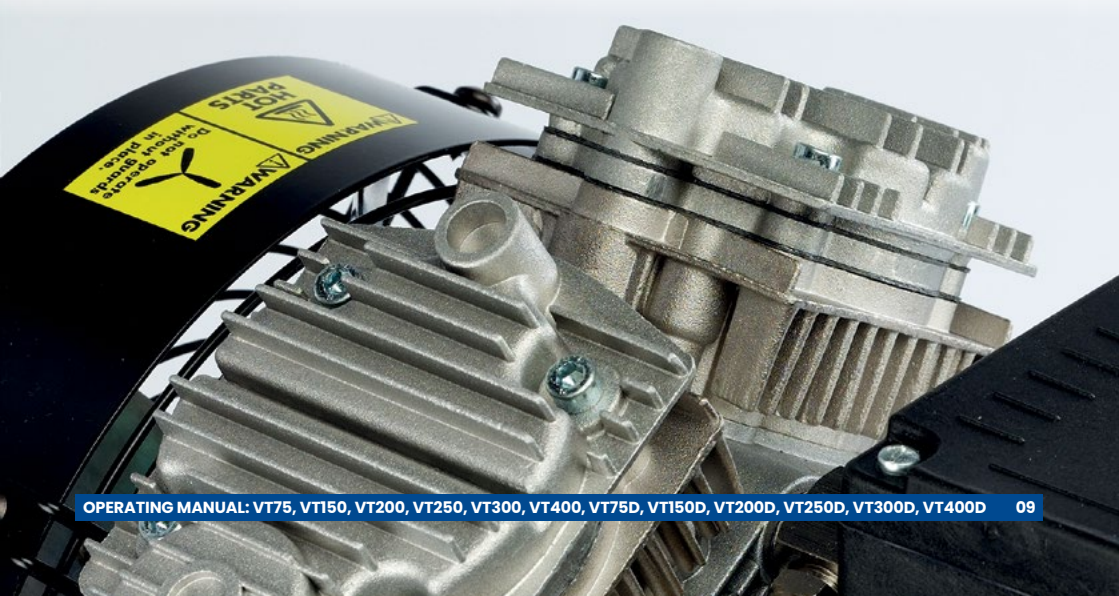
[1] Independently tested by TÜV SÜD [2] Three-phase (400 Volts) version available [3] EU plug available upon request
[4] This unit needs to be hardwired into the main fuse box



VT200/VT200D Specification	Single phase	Three phase
Motor Power	2.0 HP / 1.5 kW	2.0 HP / 1.5 kW
Max Pressure	8 Bar	8 Bar
Noise Level (1)	77 dB(A)	77 dB(A)
Current	10 Amps	3.7 Amps
Voltage	220-240V (2)	380-415V
Connection	UK plug (3)	Hardwired (4)
Weights	44 kg	55 kg
Dimensions	89 x 51 x 43 cm	89 x 52 x 52 cm
Frequency	50 Hz	60 Hz
Displacement @ 5 Bar	158 L/min	158 L/min
Tank size	50 Ltr	50 Ltr

VT250/VT250D Specification	Single phase	Three phase
Motor Power	2.5 HP / 1.84 kW	2.5 HP / 1.84 kW
Max Pressure	8 Bar	8 Bar
Noise Level (1)	82 dB(A)	82 dB(A)
Current	13.5 Amps	4.6 Amps
Voltage	220-240V (2)	380-415V
Connection	Hardwired (4)	Hardwired (4)
Weights	62 kg	84 kg
Dimensions	82 x 66 x 38 cm	82 x 66 x 57 cm
Frequency	50 Hz	60 Hz
Displacement @ 5 Bar	210 L/min	210 L/min
Tank size	59 Ltr	59 Ltr

(1) Independently tested by TÜV SÜD (2) Three-phase (400 Volts) version available (3) EU plug available upon request
(4) This unit needs to be hardwired into the main fuse box



VT300/VT300D Specification	Single phase	Three phase
Motor Power	3.0 HP* / 2.2 kW	3.0 HP* / 2.2 kW
Max Pressure	8 Bar	8 Bar
Noise Level (1)	81 dB(A)	81 dB(A)
Current	14 Amps	7.4 Amps
Voltage	220-240V (2)	380-415V (2)
Connection	Hardwired (3)	Hardwired (3)
Weights	75 kg	97 kg
Dimensions	78 x 115 x 42 cm	78 x 115 x 49 cm
Frequency	50 Hz	60 Hz
Displacement @ 5 Bar	250 L/Min	250 L/Min
Tank size	100 Ltr	100 Ltr

* VT300 and VT300D models feature two VT 1.5HP pumps

VT400/VT400D Specification	Single phase	Three phase
Motor Power	4.0 HP** / 3.0kW	4.0 HP** / 3.0kW
Max Pressure	8 Bar	8 Bar
Noise Level (1)	80 dB(A)	80 dB(A)
Current	20 Amps	7.4 Amps
Voltage	220-240V (2)	380-415V (2)
Connection	Hardwired (3)	Hardwired (3)
Weights	85 kg	107 kg
Dimensions	78 x 115 x 43 cm	78 x 115 x 52 cm
Frequency	50 Hz	60 Hz
Displacement @ 5 Bar	316 L/Min	316 L/Min
Tank size	100 Ltr	100 Ltr

** VT400 and VT400D models feature two VT 2.0HP pumps

(1) Independently tested by TÜV SÜD (2) Three-phase (400 Volts) version available
(3) This unit needs to be hardwired into the main fuse box

IMPORTANT!

VT250D, VT300, VT300D, VT400 and VT400D models must be connected to a dedicated fused 20 amp supply. All three phase units require a neutral supply.

09. Installation instructions

What you MUST do:

- ✓ Read these instructions before using your air compressor.
- ✓ Ensure the compressor has been installed, electrically connected and piped in by a properly qualified person.
- ✓ Ensure the compressor is kept upright at all times.
- ✓ Use ear protection when in close proximity to the compressor.
- ✓ Connections from the compressor outlet should be made in flexible pipe.
- ✓ Provide adequate protection from the weather.
- ✓ Site the compressor level in both planes.
- ✓ Ensure the surface has sufficient load bearing capacity.
- ✓ Allow access for maintenance all around the compressor (min 30cm).
- ✓ Site in a dry area, avoiding damp or humid conditions. The site must be dust free, well-ventilated and have a cool ambient temperature. 0 to 40°C should be regarded as the minimum and maximum allowable ambient.

What you MUST NOT do:

- ✗ Do not attempt any maintenance on the compressor until it has been isolated from the power supply.
- ✗ Do not attempt any work on the compressor until the air receiver and pipe work systems are depressurised.
- ✗ Compressed air is dangerous if misused and can prove fatal. Avoid any bodily contact with compressed air.
- ✗ During operation the motor will become quite hot to the touch. Avoid contact to prevent burns.
- ✗ Never tamper with the pressure relief valve.
- ✗ Do not enclose the compressor or allow hot air generated by the motor to recirculate around the compressor.
- ✗ Do not restrict air flow around the end cover ventilation grilles.
- ✗ Do not site in a potentially explosive atmosphere without the necessary additional precautions being made.
- ✗ Do not obstruct cooling fans or outlet vents.
- ✗ Do not lubricate the oil free motor or pump assembly – will cause severe damage.

IMPORTANT!

These compressors generate heat. Never restrict any of the ventilation grilles otherwise serious damage may occur.

This product is intended for use in non-sterile environments. If installed or used within a controlled environment, the end user is responsible for implementing appropriate measures to maintain the required environmental conditions.

10. Operation

Refer to exploded parts diagrams and illustrations when reading this section. Flexible airline should be fitted to the regulator outlet.

We recommend the compressor has a maximum 50% duty cycle to prolong pump life.

The motor must never be allowed to run continuously, otherwise it will overheat and may become damaged. The duty cycle is calculated over 10 minutes, meaning that if the motor runs for 5 minutes it must rest for 5 minutes before its next use.

All air connections must be leak free to prevent the compressor from overheating. The compressor is fitted with a thermal overload. In the event of excessive temperature, the motor will switch off. After about 50 minutes when the motor has cooled it will automatically reset.

You must find the cause of the overload and rectify it before continuing to use the compressor. Damage by continuing to use the unit is not covered under warranty.

11. Starting & stopping

Plug the compressor into an outlet socket of nominal voltage and fitted with the correct fuse as shown in section "Electrical Connections".

Switch the compressor on by turning the control switch on top of the pressure switch to the "I / AUTO" position.

The compressor will start running and automatically switch off at the pre-set pressure. The pump will turn on automatically when pressure drops low enough.

Duplex Models VT300/300D, VT400/400D are fitted with a sequential start system to reduce electrical loading. You will notice one motor starting a few seconds after the other [single phase only]. This is normal.

Pressure switch

NEVER unplug the compressor when running. Always switch off using the on/off control on the pressure switch to ensure the compressor discharges

Note: Each time the compressor switches off, you will hear a short hiss of air. You are hearing the unloader valve discharging the residual delivery pipe pressure. This is normal.

Dryer models also use this discharge as the motor cycles to purge the desiccant dryer. Working dryer models over the advised 50% duty cycle will cause your dryer to fail prematurely, and replacement/repairs will not be covered under warranty.

12. Adjusting outlet pressure

Use the pressure regulator to adjust the outlet pressure.

To increase line pressure, rotate the knob in a clockwise direction; to decrease turn anti clockwise. It is possible to lock the setting by pushing the knob down until it "clicks".

There are two pressure gauges on each model.

The larger gauge indicates the air receiver pressure, the smaller gauge indicates the air outlet pressure.

Pressure regulator

13. Routine maintenance

Below are steps on how to perform routine maintenance on your machine, as detailed in "06. Preventative Maintenance". Failure to perform these maintenance activities in line with the advised timetable detailed on page 7 (or sooner depending on frequency of usage) will result in your warranty being void.

Air receiver drain

A. DRAINING THE AIR RECEIVER

Drain condensate from air receiver at a pressure of no more than 2 Bar. Slowly open the drain tap provided to allow condensate to flow out. Fully close drain tap when all condensate has drained off.

Note: Condensate must be handled in accordance with national environmental rules.

Pressure relief valve

B. CHECKING THE PRESSURE RELIEF VALVE (PRV)

Ensure the air receiver is not pressurised. Unscrew the knurled end of the pressure relief valve until an audible click is heard. Retighten without using excessive force.

If no click is heard, PRV may need to be replaced.

C. EMPTY CONDENSATE COLLECTION BOTTLE - DRYER MODELS ONLY

When ¾ full, or sooner, remove the bottle from the holder and unscrew the top. Dispose of the liquid inside according to local guidance. Replace the top and return to the holding bracket.

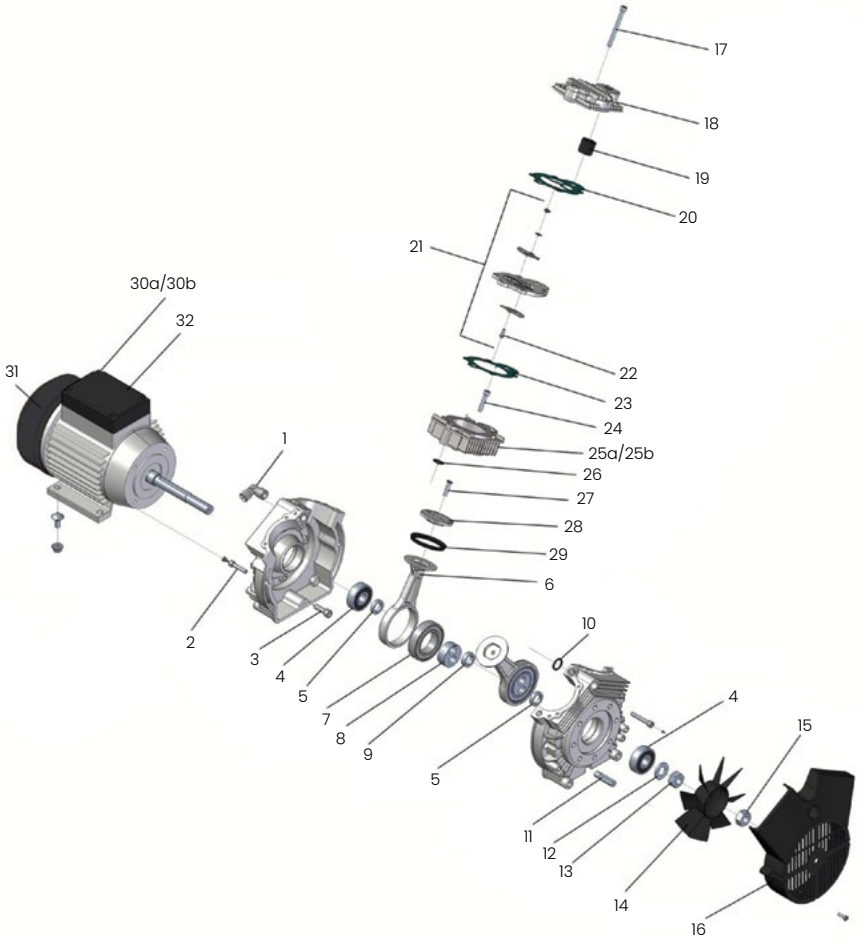
Condensate bottle

14. VT 0.75HP / 1.5HP pump – parts list

#	Description	Part No.
1	3/8bsp outlet elbow	BPB0629
2	Block fixing	BPB0665
3	Block screw	BPB0667
4	Block bearing	BPB0668
5	Short spacer	BPB0669
6	Con rod	BPB0670
7	Con rod bearing	BPB0671
8	Eccentric	BPB0672
9	Large spacer	BPB0673
10	Block o ring	BPB0674
11	Stud bolt	BPB0676
12	16mm washer	BPB0677
13	M16 nut	BPB0678
14	Fan	BPB0625
15	M16 fan nut	BPB0679
16	Fan cowling	BPB0626
17	Cylinder head bolt	BPB0680

#	Description	Part No.
18	Cylinder head	BPB0681
19	Intake filter	BPB0682
20	Cylinder head gasket	BPB0620
21	Complete valve plate	BPB0686
22	Valve strip bolt	BPB0687
23	Valve plate gasket	BPB0621
24	Cylinder bolt	BPB0688
25a	Cylinder VT75	BPB0689
25b	Cylinder VT150	BPB0690
26	Cylinder o ring	BPB0691
27	Top washer bolt	BPB0692
28	Top washer	BPB0693
29	Piston seal	BPB0623
30a	Capacitor VT75	BPB0696
30b	Capacitor VT150	BPB0696
31	Motor fan cover	BPB0618
32	Terminal box	BPB1329

This pump is used on the VT75, VT75D, VT150, VT150D, VT300, and VT300D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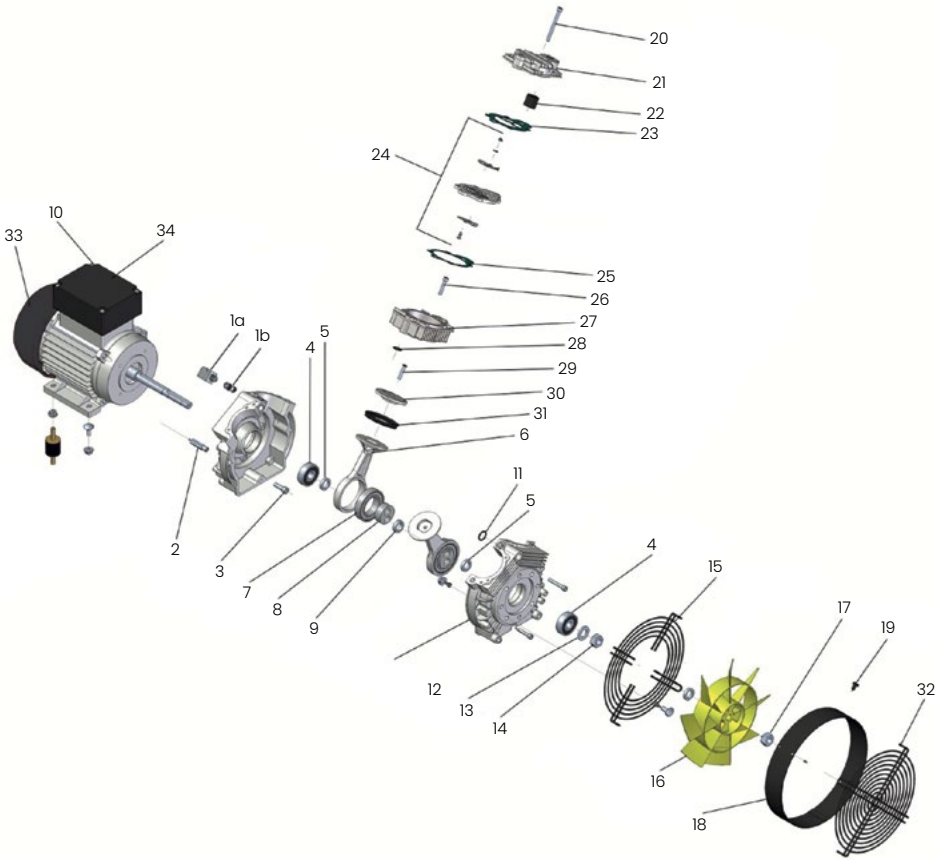
15. VT 2.0HP pump – parts list

#	Description	Part No.
1a	3/8bsp outlet elbow	BPB0614
1b	3/8bsp M/M equal adaptor	BPB0283
2	Block fixing	BPB0665
3	Block screw	BPB0667
4	Block bearing	BPB0668
5	Short spacer	BPB0669
6	Con rod	BPB0670
7	Con rod bearing	BPB0671
8	Eccentric	BPB0672
9	Large spacer	BPB0673
10	VT200 capacitor	BPB0674
11	Block o ring	BPB0676
12	Stud bolt	BPB0677
13	16mm washer	BPB0678
14	M16 nut	BPB0625
15	Inner fan cover	BPB0679
16	Fan	BPB0626
17	M16 fan nut	BPB0680

#	Description	Part No.
18	Fan ring	BPB0681
19	Fan cover fixing	BPB0682
20	Cylinder head bolt	BPB0620
21	Cylinder head	BPB0686
22	Intake filter	BPB0687
23	Cylinder head gasket	BPB0621
24	Complete valve plate	BPB0688
25	Valve plate gasket	BPB0689
26	Cylinder bolt	BPB0690
27	Cylinder	BPB0691
28	Cylinder o ring	BPB0692
29	Top washer bolt	BPB0693
30	Top washer	BPB0623
31	Piston seal	BPB0696
32	Outer fan cover	BPB0696
33	Motor fan cover	BPB0618
34	Terminal box	BPB1329

This pump is used on the VT200 VT200D, VT400, and VT400D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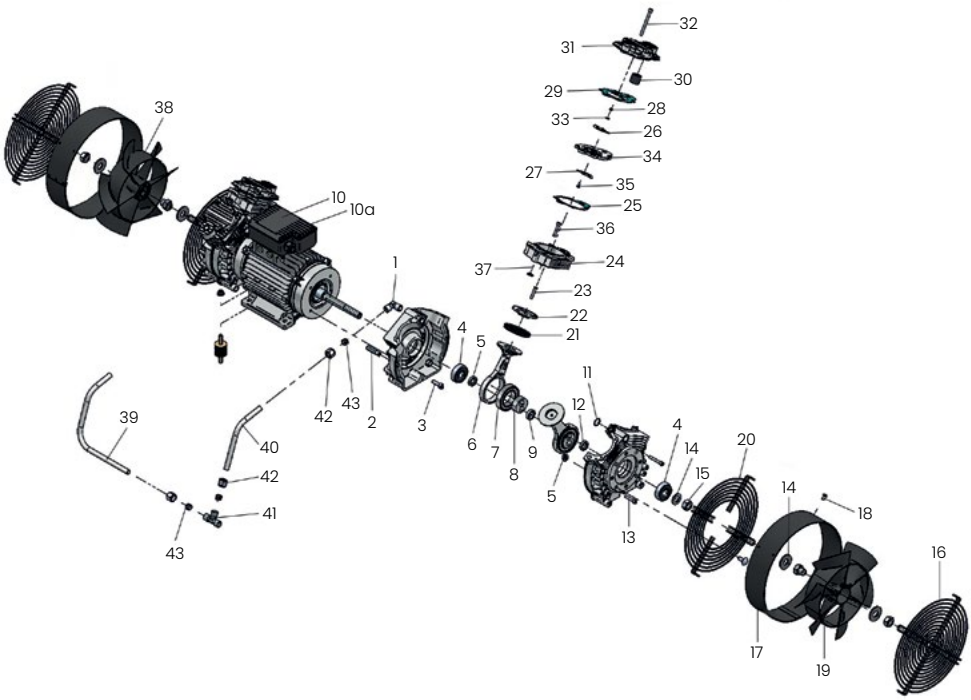
16. VT 2.5HP pump – parts list

#	Description	Part No.
1	3/8bsp outlet elbow	BPB0614
2	Block fixing	BPB0665
3	Block screw	BPB0667
4	Block bearing	BPB0668
5	Short spacer	BPB0669
6	Con rod	BPB0670
7	Con rod bearing	BPB0671
8	Eccentric	BPB0672
9	Large spacer	BPB0673
10	Capacitor	BPB0701
10a	Terminal box	BPB1329
11	Block o ring	BPB0674
12	Eccentric nut	BPB0984
13	Stud bolt	BPB0676
14	Washer	BPB0677
15	M16 nut	BPB0678
16	Outer fan cover	BPB0991
17	Fan ring	BPB0990
18	Fan cover fixing	BPB0706
19	Right hand fan	BPB0988A
20	Inner fan cover	BPB0987
21	Piston seal	BPB0623

#	Description	Part No.
22	Top washer	BPB0693
23	Top washer screw	BPB0692
24	Cylinder	BPB0690
25	Valve plate gasket	BPB0621
26	Inlet valve strip	BPB0685
27	Outlet valve strip	BPB0685
28	Valve plate nut	BPB0683
29	Cylinder head gasket	BPB0620
30	Inlet filter	BPB0682
31	Cylinder head	BPB0681
32	Cylinder head bolt	BPB0680
33	Valve plate washer	BPB0684
34	Valve plate	BPB0686
35	Valve plate bolt	BPB0687
36	Cylinder bolt	BPB0688
37	Cylinder o ring	BPB0691
38	Left hand fan	BPB0989A
39	90° connecting pipe	BPB0993
40	Straight pipe	BPB0994
41	Tee piece	BPB0992
42	Connecting pipe nut	BPB0986
43	Connecting pipe olive	BPB0985

This pump is used on the VT250 and VT250D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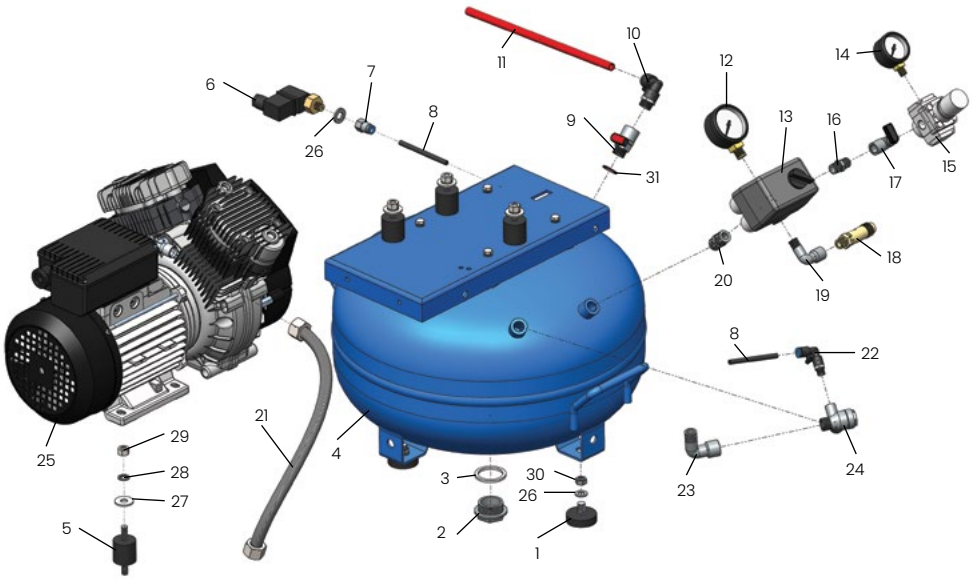
17. VT75 parts list

#	Description	Part No.
1	Rubber foot	BPB0601
2	Inspection plug	BPB0243
3	Inspection plug seal	BPB0502
4	24L vessel	BPB0260
5	30mm rubber mounting	BPB1296
6	Solenoid valve and cable assembly	BPB0545
7	1/8bspf x 6mm push-in tube fitting	BPB0154
8	6mm black nylon tube	BPB0203
9	Drain valve	BPB0281
10	3/8bspm x 10mm swivel elbow	BPB0277
11	Drain tube	BPB0284
12	50mm pressure gauge	BPB0658
13	Pressure switch MDR2/11	BPB0550
14	40mm pressure gauge	BPB0657
15	1/4bsp pressure regulator	BPB0510
16	1/4bspm x 1/4 adaptor	BPB1078

#	Description	Part No.
17	On/off valve	BPB1079
18	Pressure relief valve	BPB1084
19	1/4bsp MF elbow	BPB1139
20	3/8bsp adaptor	BPB0283
21	400mm delivery pipe	BPB0508
22	1/8bspm x 6mm elbow tube fitting	BPB0044
23	3/8bsp MF elbow	BPB0282
24	Non return valve	BPB0656
25	0.75HP pump	BPB0539
26	M10 form 'A' washer bzp	BPB0659
27	M8 form 'A' washer bzp	BPB0595
28	M8 internal shakeproof washer bzp	BPB0084
29	M8 hex full nut bzp	BPB0161
30	M10 hex full nut bzp	BPB0257
31	3/8bsp folded copper washer	BPB0089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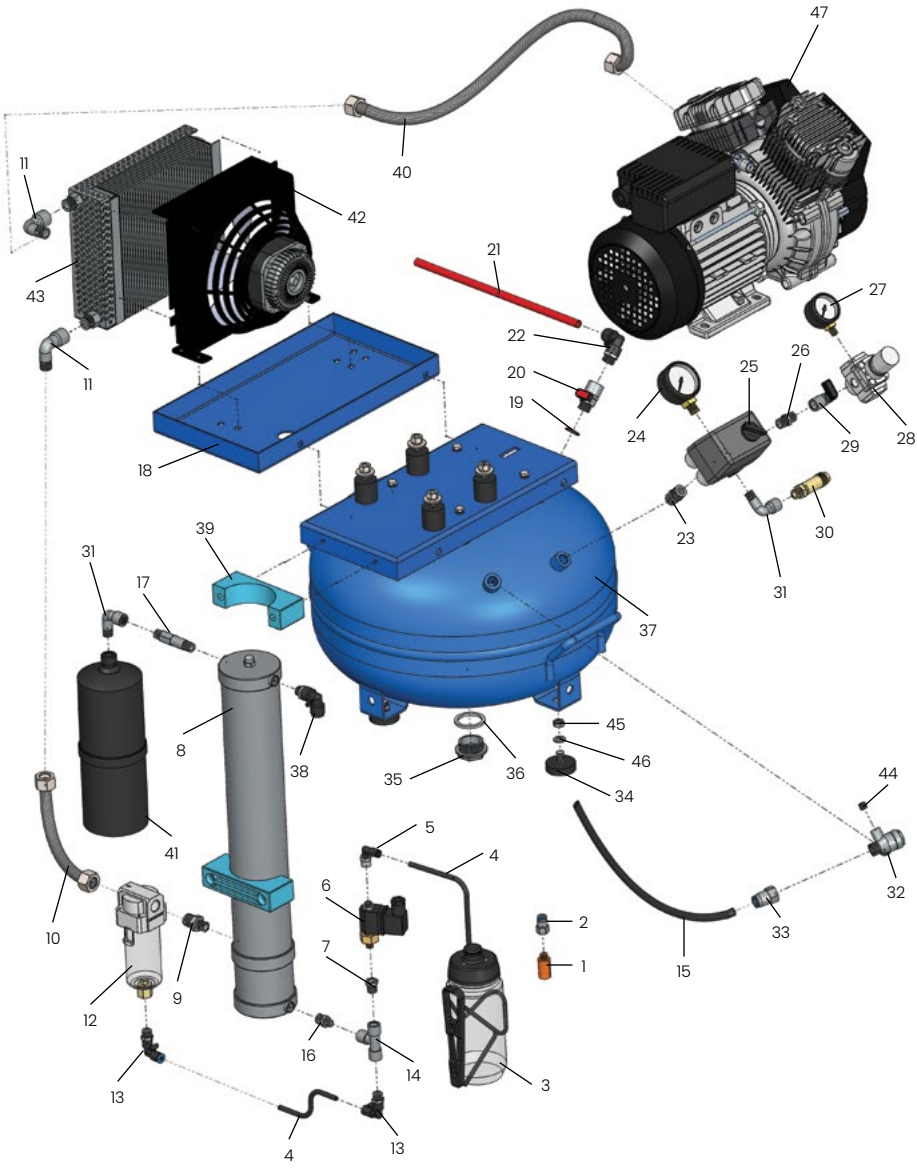
18. VT75D parts list

#	Description	Part No.
1	1/8bspp silencer	BPB0588
2	1/8bspf x 6mm push-in tube fitting	BPB0154
3	Condensate bottle with cage and cap	BPB0088
4	6mm black nylon tube	BPB0203
5	1/8bsp x 6mm tube elbow	BPB0278
6	Solenoid valve and cable assembly	BPB0545
7	1/4bpsm x 1/8bspf reducing bush	BPB0041
8	Dryer subassembly	BPB0548
9	1/4bsp x 3/8 unequal adaptor	BPB0591
10	270mm delivery pipe	BPB0858
11	3/8bsp MF elbow	BPB0282
12	Air filter – coalescing	BPB1394
13	1/4bpsm x 6mm tube swivel elbow	BPB0042
14	1/4" female tee	BPB1239
15	10mm black nylon tube	BPB0551
16	1/8bspm x 1/4 adaptor	BPB0600
17	VT&VTS purge tank bleed pipe	BPB0775
18	Aftercooler mounting bracket	BPB0557
19	3/8bsp folded copper washer	BPB0089
20	Drain valve	BPB0281
21	Drain tube	BPB0284
22	3/8bspm x 10mm swivel elbow	BPB0277

#	Description	Part No.
23	3/8bsp equal adaptor	BPB0283
24	50mm pressure gauge	BPB0658
25	Pressure switch MDR2/11	BPB0550
26	1/4bsp x 1/4 adaptor	BPB1078
27	40mm pressure gauge	BPB0657
28	1/4bsp pressure regulator	BPB0510
29	On/off valve	BPB1079
30	1/4bsp relief valve	BPB1084
31	1/4bsp MF elbow	BPB1139
32	Non return valve	BPB0656
33	3/8bsp x 10mm tube connector	BPB0275
34	Rubber foot	BPB0601
35	Inspection plug	BPB0243
36	Inspection plug seal	BPB0502
37	24L tank	BPB0260
38	1/4bsp x 10mm swivel elbow	BPB0276
39	Dryer mounting clamp	BPB0503
40	400mm delivery pipe	BPB0508
41	Dryer purge tank	BPB0484
42	Cooling fan & housing (S)	BPB0852
43	Aftercooler c/w fittings and guard (S)	BPB0861
44	1/8bsp plug	BPB0823
45	M10 hex nut	BPB0257
46	M10 form 'A' washer	BPB0659
47	0.75HP pump	BPB0539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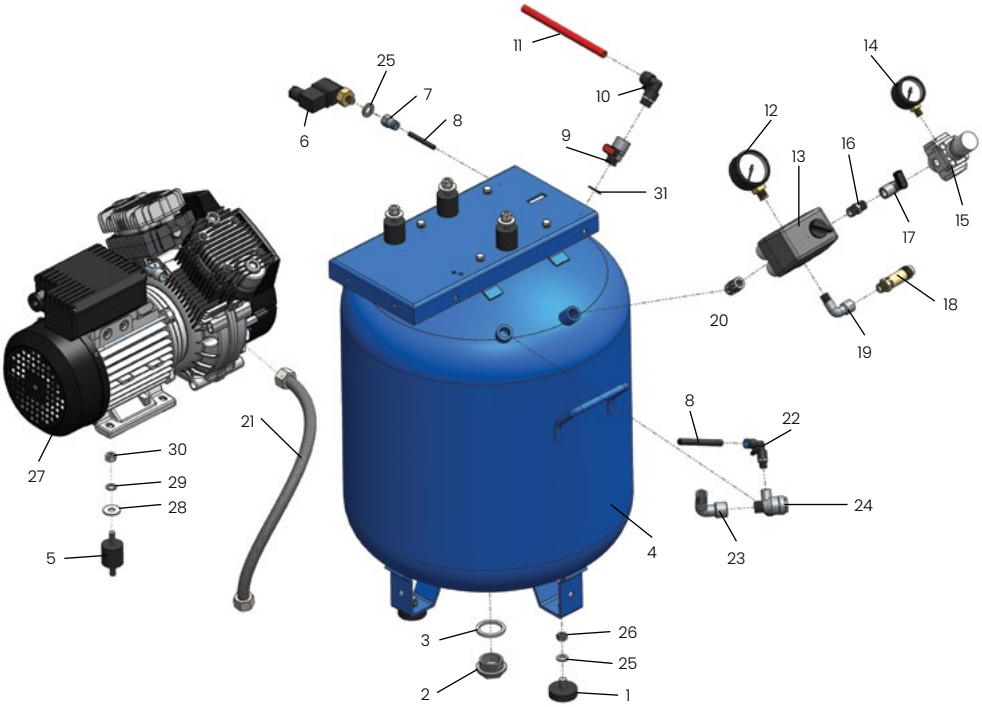
19. VT150 parts list

#	Description	Part No.
1	Rubber foot	BPB0601
2	Inspection plug	BPB0243
3	Inspection plug seal	BPB0502
4	50 L vessel	BPB0261
5	30mm rubber mounting	BPB1296
6	Solenoid valve and cable assembly	BPB0545
7	1/8bspf x 6mm push-in tube fitting	BPB0154
8	6mm black nylon tube	BPB0203
9	Drain valve	BPB0281
10	3/8bspm x 10mm swivel elbow	BPB0277
11	Drain tube	BPB0284
12	50mm pressure gauge	BPB0658
13	Pressure switch MDR2/11	BPB0550
14	40mm pressure gauge	BPB0657
15	1/4bsp regulator	BPB0510

#	Description	Part No.
16	1/4bsp x 1/4 adaptor	BPB1078
17	On/Off valve	BPB1079
18	1/4bsp pressure relief valve	BPB1084
19	1/4 MF elbow	BPB1139
20	3/8bsp equal adaptor	BPB0283
21	400mm delivery pipe	BPB0508
22	1/8 x 6mm elbow tube fitting	BPB0044
23	3/8bsp MF plated elbow	BPB0282
24	Non return valve	BPB0656
25	M10 form 'A' washer	BPB0659
26	M10 hex nut	BPB0257
27	1.5 HP pump	BPB0540
28	M8 form 'A' washer	BPB0595
29	M8 internal shakeproof washer	BPB0084
30	M8 hex nut	BPB0161
31	3/8bsp folded copper washer	BPB0089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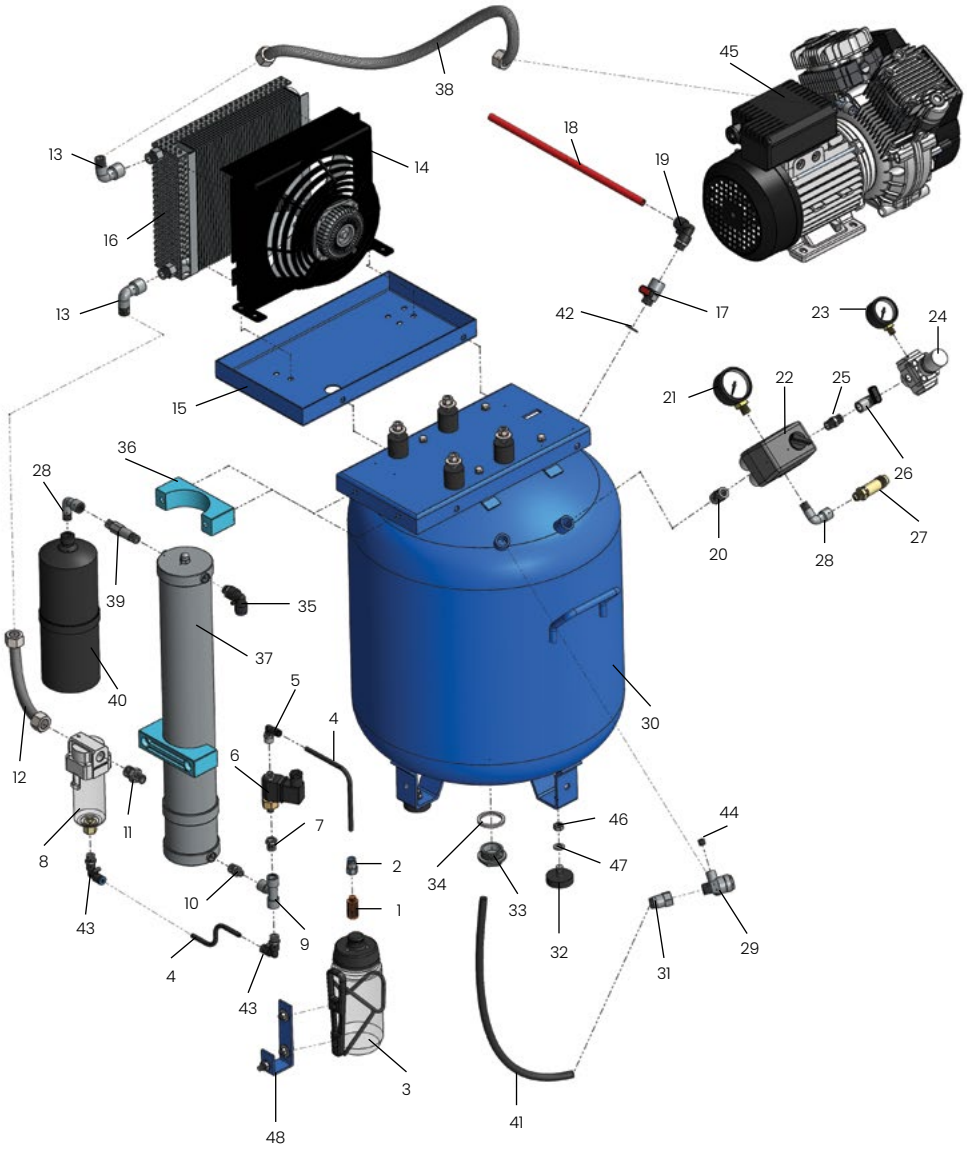
20. VT150D parts list

#	Description	Part No.
1	1/8bspp Silencer	BPB0588
2	1/8bspf x 6mm push-in tube fitting	BPB0154
3	Condensate bottle with cage and cap	BPB0088
4	6mm black nylon tube	BPB0203
5	1/8" x 6mm tube elbow	BPB0278
6	Solenoid valve and cable assembly	BPB0545
7	1/4bpsm x 1/8bspf reducing bush	BPB0041
8	Air Filter - coalescing	BPB1394
9	1/4" Female t-piece	BPB1239
10	1/8bspm x 1/4bspm adaptor	BPB0600
11	1/4" x 3/8bspm unequal adapter	BPB0591
12	270mm delivery pipe	BPB0858
13	3/8bsp MF plated elbow	BPB0282
14	Cooling fan and housing (L)	BPB0767
15	Aftercooler mounting bracket	BPB0557
16	Aftercooler c/w fittings and guard (L)	BPB0860
17	Drain valve	BPB0281
18	Drain tube	BPB0284
19	3/8bspm x 10mm tube swivel elbow	BPB0277
20	3/8bsp equal adaptor	BPB0283
21	50mm pressure gauge	BPB0658
22	Pressure switch MDR2/11	BPB0550
23	40mm pressure gauge	BPB0657

#	Description	Part No.
24	1/4bsp regulator	BPB0510
25	1/4bspmt x 1/4 Adaptor	BPB1078
26	On/off valve	BPB1079
27	1/4 bsp relief valve	BPB1084
28	1/4 bsp MF elbow	BPB1139
29	Non return valve	BPB0656
30	50 L Vessel	BPB0261
31	3/8bspf x 10mm tube connector	BPB0275
32	Rubber foot	BPB0601
33	Inspection plug	BPB0243
34	Inspection plug seal	BPB0502
35	1/4bspmt x 10mm swivel elbow	BPB0276
36	Dryer mounting clamp	BPB0503
37	Dryer subassembly	BPB0548
38	400mm delivery pipe	BPB0508
39	VT & VTS purge tank bleed pipe	BPB0775
40	Dryer purge tank	BPB0484
41	10mm black nylon tube	BPB0551
42	3/8bsp folded copper washer	BPB0089
43	1/4bpsm x 6mm tube swivel elbow	BPB0042
44	1/8bsp plug	BPB0823
45	1.5HP pump	BPB0540
46	M10 hex nut	BPB0257
47	M10 form 'A' washer	BPB0659
48	Condensate bottle mounting bracket 150D/200D	BPB0616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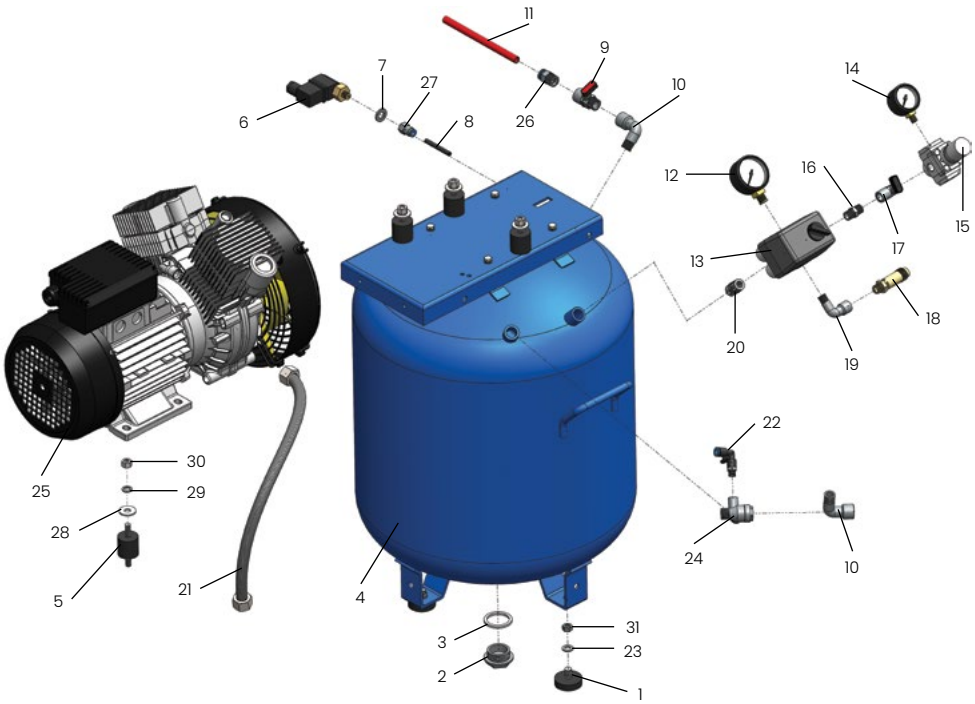
21. VT200 parts list

#	Description	Part No.
1	Rubber foot	BPB0601
2	Inspection plug	BPB0243
3	Inspection plug seal	BPB0502
4	50L vessel	BPB0261
5	30mm Rubber mounting	BPB1296
6	Solenoid valve and cable assembly	BPB0545
7	M10 form 'A' washer	BPB0659
8	6mm black nylon tube	BPB0203
9	Drain valve	BPB0281
10	3/8bsp M/F plated elbow	BPB0282
11	Drain tube	BPB0284
12	50mm pressure gauge	BPB0658
13	Pressure switch MDR2/11	BPB0550
14	40mm pressure gauge	BPB0657
15	1/4bsp regulator	BPB0510
16	1/4bsp x 1/4 adaptor	BPB1078

#	Description	Part No.
17	On/off valve	BPB1079
18	1/4bsp relief valve	BPB1084
19	1/4bspt MF elbow	BPB1139
20	3/8bsp M/M equal adaptor	BPB0283
21	400mm delivery pipe	BPB0508
22	1/8bspm x 6mm elbow tube fitting	BPB0044
23	M10 form 'A' washer	BPB0659
24	Non return valve	BPB0656
25	2.0HP pump	BPB0541
26	3/8bspm x 10mm tube connector	BPB0592
27	1/8bspf x 6mm push-in tube fitting	BPB0154
28	M8 form 'A' washer	BPB0595
29	M8 internal shakeproof washer	BPB0084
30	M8 hex nut	BPB0161
31	M10 hex nut	BPB0257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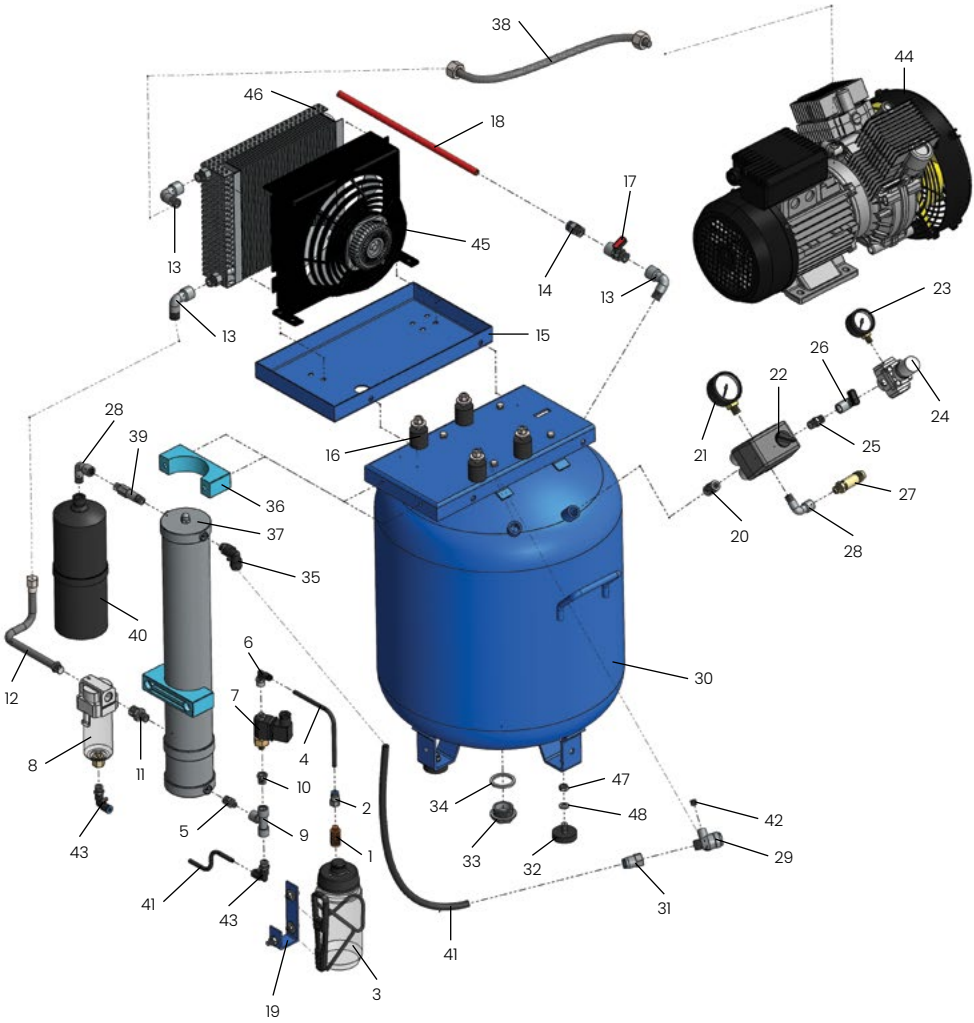
22. VT200D parts list

#	Description	Part No.
1	1/8bspp silencer	BPB0588
2	1/8bspf x 6mm push-in tube fitting	BPB0154
3	Condensate bottle with cap and cage	BPB0088
4	6mm black nylon tube	BPB0203
5	1/8bspm x 1/4bspm adaptor	BPB0600
6	1/8" x 6mm tube elbow	BPB0278
7	Solenoid valve & cable assembly	BPB0545
8	Air filter - coalescing	BPB1394
9	1/4" female t-piece	BPB1239
10	1/4bpsm x 1/8bspf Reducing bush	BPB0041
11	1/4bspm x 3/8bspm unequal adaptor	BPB0591
12	270mm Delivery pipe	BPB0858
13	3/8bsp MF plated elbow	BPB0282
14	3/8bspm x 10mm tube connector	BPB0592
15	Aftercooler mounting bracket	BPB0557
16	30mm rubber mounting	BPB1296
17	Drain valve	BPB0281
18	Drain tube	BPB0284
19	Condensate bottle mounting bracket 150D/200D	BPB0616
20	3/8bsp M/M equal adaptor	BPB0283
21	50mm pressure gauge	BPB0658
22	Pressure switch MDR2/11	BPB0550
23	40mm pressure switch	BPB0657

#	Description	Part No.
24	1/4bsp regulator	BPB0510
25	1/4bspmt x 1/4 adaptor	BPB1078
26	On/off valve	BPB1079
27	1/4bsp relief valve	BPB1084
28	1/4bspt MF elbow	BPB1139
29	Non return valve	BPB0656
30	50 L Vessel	BPB0261
31	3/8bspf x 10mm tube connector	BPB0275
32	Rubber foot	BPB0601
33	Inspection plug	BPB0243
34	Inspection plug seal	BPB0502
35	1/4bspmt x 10mm swivel elbow	BPB0276
36	Dryer mounting clamp	BPB0503
37	Dryer subassembly	BPB0548
38	400mm delivery pipe	BPB0508
39	VT and VTS purge tank bleed pipe	BPB0775
40	Dryer purge tank	BPB0484
41	10mm black nylon tube	BPB0551
42	1/8 bsp plug	BPB0823
43	1/4bpsm x 6mm swivel elbow	BPB0042
44	2.0HP pump	BPB0541
45	Cooling fan and housing (L)	BPB0767
46	Aftercooler c/w fittings and guard (L)	BPB0860
47	M10 hex nut	BPB0257
48	M10 form 'A' washer	BPB0659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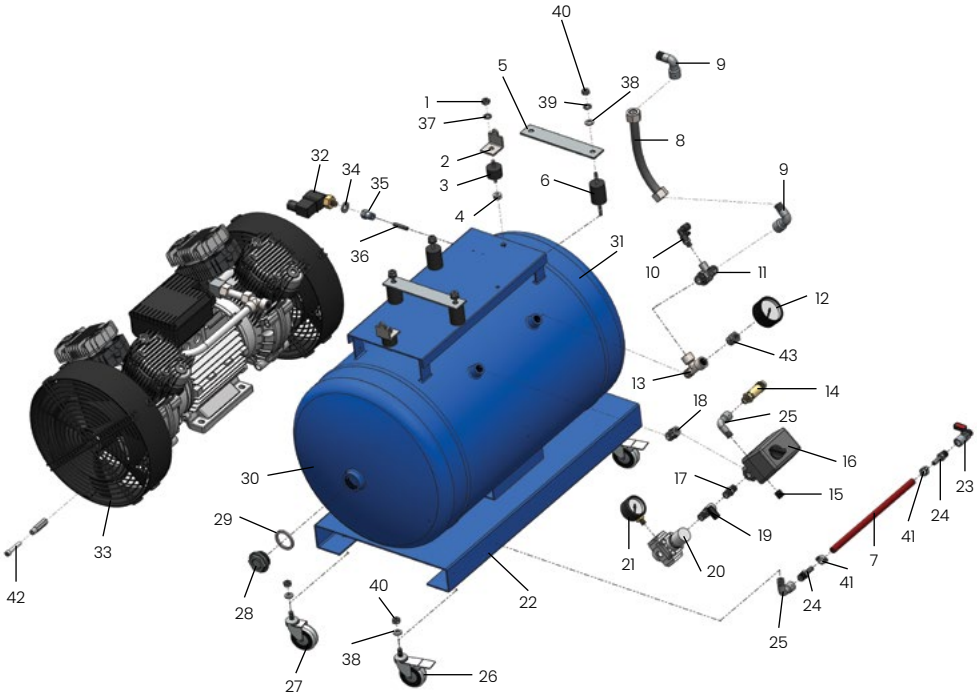
23. VT250 parts list

#	Description	Part No.
1	M8 hex nut	BPB0161
2	Crankcase mounting bracket	BPB0517
3	20mm rubber mount	BPB0273
4	M8 flanged nut	BPB0130
5	Motor mounting bracket	BPB0516
6	40mm rubber mount	BPB0272
7	Red drain tube	BPB0199
8	600mm delivery pipe	BPB0798
9	3/8bsp M/F plated elbow	BPB0282
10	1/8 x 6mm elbow tube fitting	BPB0044
11	Non return valve	BPB0656
12	50mm pressure gauge	BPB1081
13	3/8bsp MFF t-piece	BPB0802
14	1/4bsp relief valve	BPB1084
15	1/4bspt pressure plug	BPB0019
16	Pressure switch MDR2/11	BPB0550
17	1/4bspmt x 1/4 adaptor	BPB1078
18	3/8bsp M/M equal adaptor	BPB0283
19	On/off valve	BPB1079
20	1/4bsp regulator	BPB0510
21	40mm pressure gauge	BPB0657
22	VT250 base plate	BPB0319
23	1/4bsp drain valve	BPB0895

#	Description	Part No.
24	1/4bspm x 1/4" ID hose tail	BPB1076
25	1/4bsp M/F elbow	BPB1139
26	Swivel castor with brake	BPB0812
27	Swivel castor	BPB0811
28	Inspection plug	BPB0243
29	Inspection plug seal	BPB0502
30	59L Vessel	BPB0230
31	Motor mounting plate VT250/250D	BPB0343
32	Solenoid cable & valve assembly	BPB0545
33	2.5HP pump	BPB0870A
34	M10 form 'A' washer	BPB0659
35	1/8bspf x 6mm push-in tube fitting	BPB0154
36	6mm black nylon tube	BPB0203
37	M8 internal shakeproof washer	BPB0084
38	M8 form 'A' washer	BPB0595
39	M8 internal shakeproof washer	BPB0084
40	M8 hex nut	BPB0161
41	Hose clip	BPB0200
42	M6 x 35 Skt cap screw	BPB0164
43	3/8bspm x 1/4bspf reducing bush	BPB0356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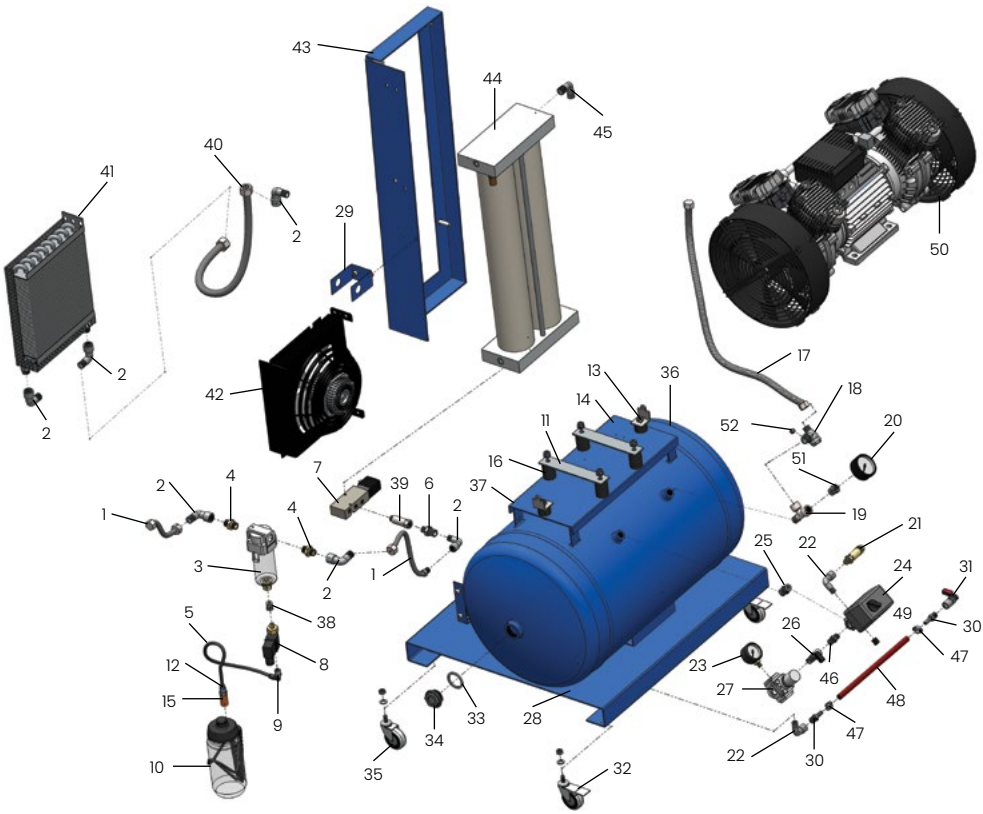
24. VT250D parts list

#	Description	Part No.
1	165mm delivery pipe	BPB0728
2	3/8bsp M/F elbow	BPB0282
3	Air filter - coalescing	BPB1394
4	3/8" bsp equal male adaptor	CP0713
5	6mm black nylon tube	BPB0203
6	1/4bspm x 3/8bspm unequal adapter	BPB0591
7	Solenoid valve body (twin dryer)	BPB1279
8	Solenoid valve & cable assembly	BPB0545
9	1/2bspf x 6mm tube elbow	BPB0278
10	Condensate bottle c/w cap and cage	BPB0088
11	Motor mounting bracket	BPB0516
12	1/8bspf x 6mm push in tube fitting	BPB0154
13	Crankcase mounting bracket	BPB0517
14	20mm rubber mount	BPB0273
15	1/8bspp silencer	BPB0588
16	40mm rubber mount	BPB0272
17	600mm delivery pipe	BPB0798
18	Non return valve	BPB0656
19	3/8bsp MFF Run t-piece	BPB0802
20	50mm pressure gauge	BPB1081
21	1/4bsp relief valve	BPB1084
22	1/4bspt MF elbow	BPB1139
23	40mm pressure gauge	BPB0657
24	Pressure switch MDR2/11	BPB0550
25	3/8bsp M/M equal adaptor	BPB0283
26	On/off valve	BPB1079

#	Description	Part No.
27	1/4bsp regulator	BPB0510
28	VT250D base plate	BPB0315
29	Coalescing filter bracket (MSC)	BPB1337
30	1/4bsp x 1/4" ID hose tail	BPB1076
31	1/4bsp drain valve	BPB0895
32	Swivel castor with brake	BPB0812
33	Inspection plug seal	BPB0502
34	Inspection plug	BPB0243
35	Swivel castor	BPB0811
36	59L vessel	BPB0230
37	Motor mounting plate	BPB0343
38	1/4bspm x 1/8bspf reducing bush	BPB0041
39	1/4bsp M/F extension piece	BPB0150
40	400mm delivery pipe	BPB0508
41	Aftercooler c/w fittings and guard (L)	BPB0860
42	Cooling fan and housing (L)	BPB0767
43	Aftercooler/dryer mounting bracket	BPB0330/0331
44	Twin tower dryer	BPB0836
45	3/8bsp outlet elbow	BPB0629
46	1/4bspmt x 1/4 adaptor	BPB1078
47	Hose clip	BPB0200
48	Drain tube	BPB0199
49	1/4" bspt pressure plug	BPB0019
50	2.5HP pump	BPB0870A
51	3/8 bspm x 1/4 bspf reducing bush	BPB0356
52	1/8bsp plug	BPB0823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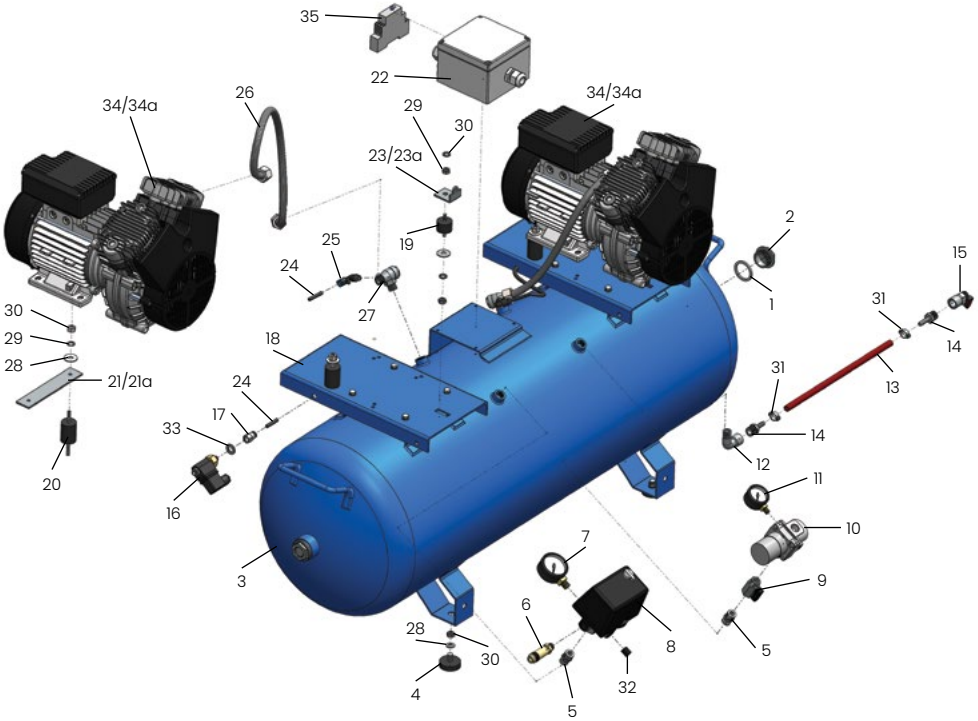
25. VT300 / VT400 parts list

#	Description	Part No.
1	Inspection plug seal	BPB0502
2	Inspection plug	BPB0243
3	100L vessel	BPB0262
4	Rubber foot	BPB0601
5	3/8bsp M/M equal adaptor	BPB0283
6	1/4bsp relief valve	BPB1084
7	50mm pressure gauge	BPB0658
8	Pressure switch MDR3/11	BPB0549
9	On/off valve	BPB0535
10	3/8bsp regulator	BPB0511
11	40mm pressure gauge	BPB0657
12	3/8bsp M/F plated elbow	BPB0282
13	Drain tube	BPB0199
14	3/8bspm x 1/4 ID hose tail	BPB0652
15	Drain valve	BPB0281
16	Solenoid valve and cable assembly	BPB0545
17	1/8bsptm x 6mm push-in tube fitting	BPB0154
18	Motor mounting plate	BPB0642
19	20mm rubber mount	BPB0273

#	Description	Part No.
20	40mm rubber mount	BPB0272
21	Motor mounting bracket – VT300	BPB0321
21a	Motor mounting bracket – VT400	BPB0516
22	Electronics enclosure	BPB0513
23	Crankcase mounting Bracket –VT300	BPB0347
23a	Crankcase mounting Bracket –VT400	BPB0517
24	6mm black nylon tube	BPB0203
25	1/8 x 6mm elbow	BPB0044
26	400mm delivery pipe	BPB0508
27	Non return valve	BPB0656
28	M8 form 'A' washer	BPB0595
29	M8 internal shakeproof washer	BPB0084
30	M8 hex nut	BPB0161
31	Hose clip	BPB0200
32	1/4" bsp pressure plug	BPB0019
33	M10 form 'A' washer	BPB0659
34	2HP pump	BPB0541
34a	1.5HP pump	BPB0540
35	Sequential timer	BPB0512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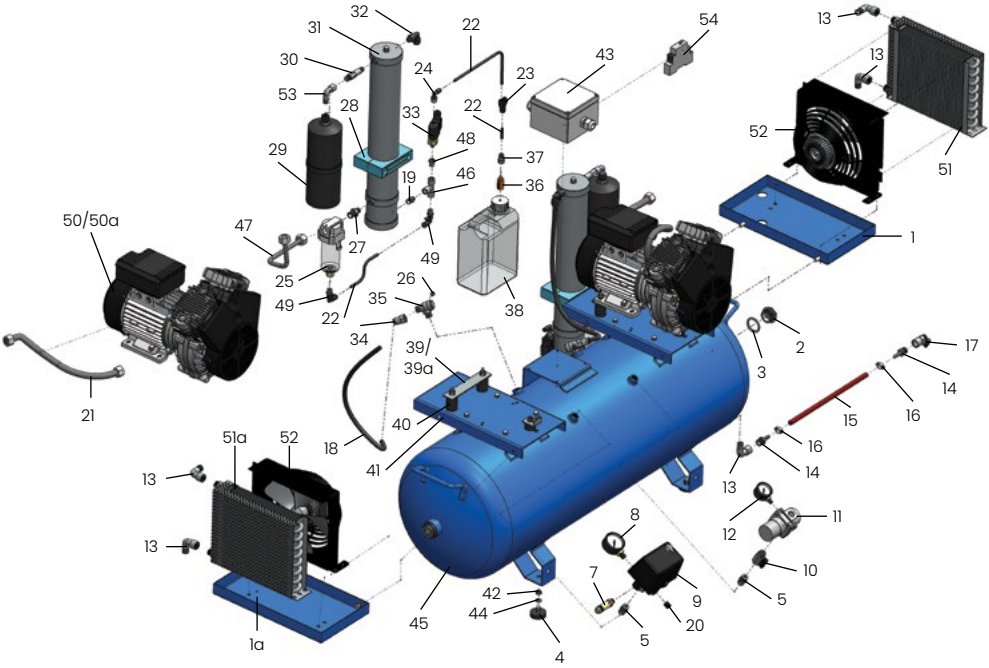
26. VT300D / VT400D parts list

#	Description	Part No.
1	Aftercooler mounting bracket (Right)	BPB0557
1a	Aftercooler mounting bracket (Left)	BPB0863
2	Inspection plug	BPB0243
3	Inspection plug seal	BPB0502
4	Rubber foot	BPB0601
5	3/8bsp M/M equal adaptor	BPB0283
6	1/4bspt M/F elbow	BPB1139
7	1/4bsp relief valve	BPB1084
8	50mm pressure gauge	BPB0658
9	Pressure switch MDR3/11	BPB0549
10	On/off valve	BPB0535
11	3/8bsp regulator	BPB0511
12	40mm pressure gauge	BPB0657
13	3/8bsp M/F elbow	BPB0282
14	3/8bspmt x ¼" hose tail	BPB0652
15	Drain tube	BPB0199
16	Hose clip	BPB0200
17	Drain valve	BPB0281
18	10mm black nylon tube	BPB0551
19	1/8 bspm x 1/4 adaptor	BPB0600
20	1/4" bsp pressure plug	BPB0019
21	400mm delivery pipe	BPB0508
22	6mm black nylon tube	BPB0203
23	6mm tube y-connector	BPB0279
24	1/8bspf x 6mm tube elbow	BPB0278
25	Air filter - coalescing	BPB1394
26	1/8bsp plug	BPB0823
27	1/4bspm x 3/8 unequal adaptor	BPB0591
28	Dryer mounting clamp	BPB0503
29	Dryer purge tank	BPB0484
30	VT & VTS range purge tank bleed pipe	BPB0775
31	Dryer subassembly	BPB0548

#	Description	Part No.
32	1/4bspmt x 10mm swivel elbow	BPB0276
33	Solenoid valve and cable assembly	BPB0545
34	3/8bspf x 10mm tube connector	BPB0275
35	Non return valve	BPB0656
36	1/8bspp silencer	BPB0588
37	1/8bspf x 6mm push-in tube fitting	BPB0154
38	Condensate bottle with cap and cage	BPB0587
39	Motor mounting bracket – VT300D	BPB0321
39a	Motor mounting bracket – VT400D	BPB0516
40	40mm Rubber mount	BPB0272
41	Motor mounting plate	BPB0642
42	M8 hex nut	BPB0161
43	Electrics enclosure	BPB0513
44	M8 form 'A' washer	BPB0595
45	100L vessel	BPB0262
46	1/4" female t-piece	BPB1239
47	270mm delivery pipe	BPB0858
48	1/4 bspm x 1/8 bspf reducing bush	BPB0041
49	1/4bpsm x 6mm swivel elbow	BPB0042
50	1.5HP pump	BPB0540
50a	2.0HP pump	BPB0541
51	Large aftercooler with fittings and guard (Right)	BPB0860
51a	Large aftercooler with fittings and guard (Left)	BPB0869
52	Large cooling fan and housing	BPB0767
53	1/4bspt male x female elbow	BPB1139
54	Sequential timer	BPB0512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27. Troubleshooting

THE COMPRESSOR DOES NOT TURN ON

Possible causes	Solutions
Wrong power supply	Check compressor is connected to the right voltage/frequency
Plug not turned on	Turn on plug
Pressure switch not turned on	Turn switch to on (auto) position
Already reached pressure	Compressor will turn back on when pressure in the tank drops out of the differential range
Capacitor blown	Replace capacitor
Thermal trip on motor	Wait for motor to cool down. Find reason motor was running hot (air leaks/undersized for application) and resolve

AIR IN TANK BUT NOTHING COMING OUT THE OUTLET

Possible causes	Solutions
Valve shut before the regulator	Open the valve
Regulator wound down too far so it stops flow	Turn regulator to increase pressure

AIR VENTING AFTER COMPRESSOR REACHES PRESSURE

Possible causes	Solutions
Air venting less than 10 seconds after pump turns off	This is head pressure being released and is normal
Air venting more than 10 seconds after pump turns off. NRV failed and air leaking backwards from tank	Replace NRV spring and seal

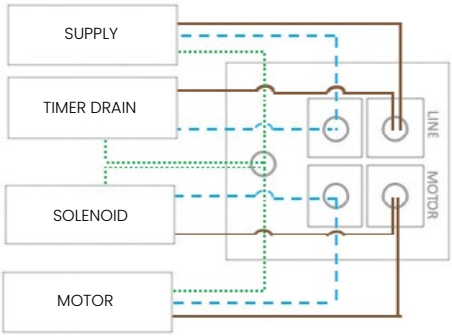
TAKES A LONG TIME TO GENERATE PRESSURE/UNABLE TO REACH PRESSURE

Possible causes	Solutions
Air leaks in system	Fix air leaks
Piston rings worn	Requires pump service
Motor windings damaged	Replace motor

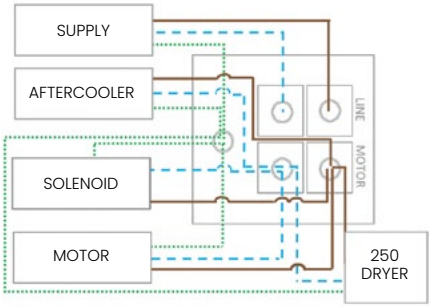
For any fault not listed in this table, please contact Bambi Air directly for assistance.

28. Wiring diagram - single phase

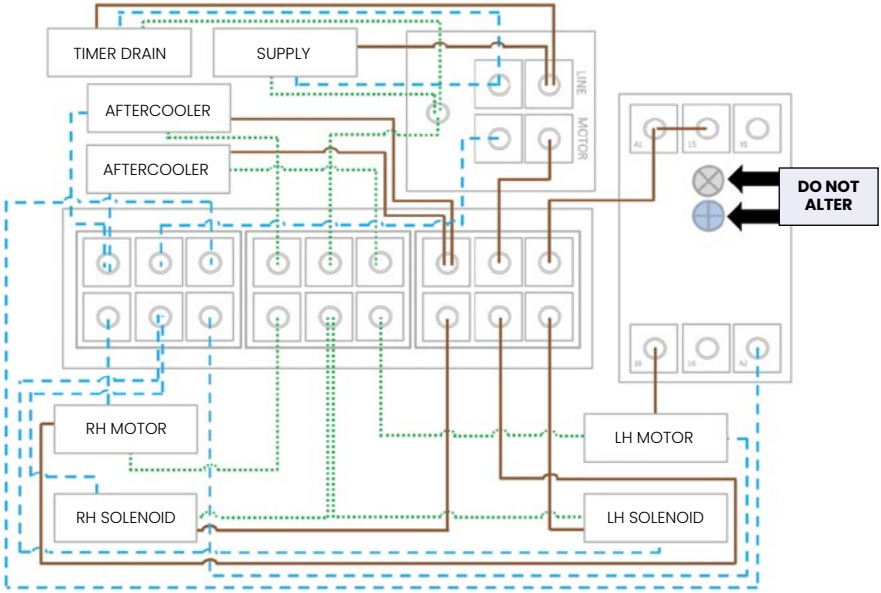
VT75, VT150, VT200, VT250



VT(H)75D, VT150D, VT200D, VT250D



VT300, VT300D, VT400, VT400D



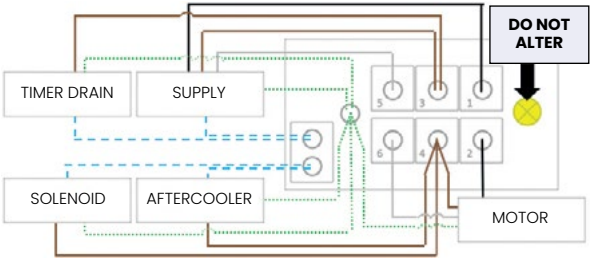
Live: ——— Neutral: - - - - Earth: ·····

[1] Optional extra for non dryer models

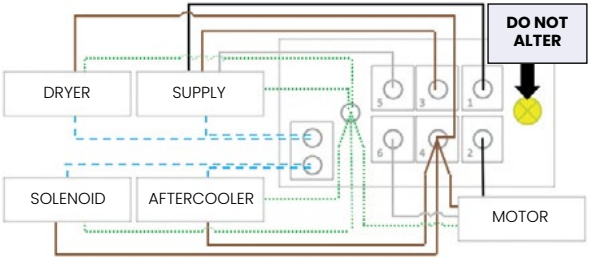
[2] Dryer models only

29. Wiring diagram - three phase

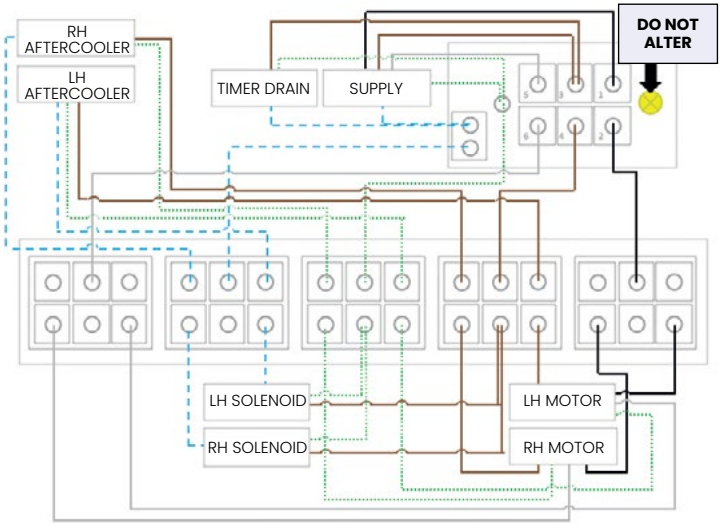
VT75, VT75D, VT150, VT150D, VT200, VT200D, VT250



VT250D



VT300, VT300D, VT400, VT400D



Notes

All Bambi air compressors are designed, built and tested in the UK to ensure continuity across our product ranges and compliance with consumer quality standards.

MADE IN BRITAIN

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