



DUST COLLECTOR

R2D2

OWNER'S MANUAL AND PARTS BOOK



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ORIGINAL LANGUAGE OPERATING MANUAL FOR
CONTEC DUST COLLECTOR

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SAFETY PRECAUTIONS



DANGER EXPLOSION HAZARD

Never operate the machine in an explosive atmosphere, near combustible materials, or where ventilation does not clear exhaust fumes.



WARNING BURN HAZARD

Never come into contact with the engine or muffler when engine is operating or shortly after it is turned off. Serious burns may occur.



CAUTION ROTATING HAZARD

Never place hands or feet inside safety guard rings. Serious injury will result from contact with rotating blades.



CAUTION MOVING PARTS

Before starting the machine, ensure that all guards and safety devices are in place and functioning properly.



ATTENTION READ OWNER'S MANUAL

Read and understand owner's manual before using this machine. Failure to follow operating instructions could result in serious injury or death.

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QUALITY ASSURANCE/ MACHINE BREAK IN

The Contec R2D2 is the product of extensive engineering development designed to give long life and unmatched performance. The Dust Collector are shipped completely assembled.

You can help ensure that your Dust Collector will perform at top levels by observing a simple routine on first use. Consider that your new Dust Collector is like a new car. Just as you would break in a new car to the road or any new machine to the job, you should start gradually and build up to full use. Learn what your machine can do and how it will respond. Full throttle and control may be used after this time period, as allowed by material. This will serve to further break in the machine on your specific application, as well as provide you with additional practice using the machine.

We thank you for the confidence you have placed in us by purchasing a Contec Dust Collector and wish you many years of satisfied use.

WARRANTY INFORMATION

Bartell agrees to furnish without charge, F.O.B. our plant, a replacement for any part or portion thereof, comprising the main unit of the Contec Dust Collector, prove upon our examination, to be defective in either material or workmanship within a period of twelve (12) months from date of purchase, provided that notice of such defective part or portion thereof is given to Bartell Ltd. within the twelve month warranty period. No further or other guarantee or warranty expressed or implied in connection with the sale of the Planer is given and our sole liability consists in replacing defective parts or portions thereof. We shall not be responsible for any special, indirect or consequential damages arising in any manner whatsoever.

This guarantee is for the sole benefit of the original purchaser as end user. Our responsibility under this guarantee ends in the case the original purchaser transfers ownership of the Dust Collector, makes any changes or adds any parts or devices not of our manufacture to the Dust Collector machine.

SPECIFICATIONS

R2D2 – POWER UNIT	
Overall Width, cm (in)	51 (20)
Overall Length, cm (in)	101 (40)
Overall Height, cm (in)	148 (58)
Weight, kg (lb)	160 (353)
Electrical Connection	460V, 60HZ, 3 Phase, 63A (US Version)
Max. Airflow, m ³ /Min	38
Max. Vacuum, Pa (mbar)	10150 (101.5)
Filter Cleaning System	Pulse Jet
Noise level L _{wa}	53 dB(A)
Noise level L _{eq}	71 dB(A)

R2D2 – FILTER UNIT CONTAINER VERSION	
Overall Width, cm (in)	79 (31)
Overall Length, cm (in)	105 (41)
Overall Height, cm (in)	120 (47)
Weight, kg (lb)	120 (264.5)
Filter area, m ³ (in ²)	10
Number of filter cartridges	5
Dust ports, mm	70/125
Volume of dust bin, L	90

R2D2 – FILTER UNIT BAG VERSION	
Overall Width, cm (in)	79 (31)
Overall Length, cm (in)	105 (41)
Overall Height, cm (in)	165 (65)
Weight, kg (lb)	160 (353)
Filter area, m ³ (in ²)	10
Number of filter cartridges	5
Dust ports, mm	70/125
Volume of dust bin, L	2 x 75

PREVENTATIVE MAINTENANCE AND ROUTINE SERVICE PLAN

This Contec Dust Collector has been assembled with care and will provide years of service. Preventative maintenance and routine service are essential to the long life of your Dust Collector. Your dealer is interested in your new machine and has the desire to help you get the most value from it. After reading through this manual thoroughly, you will find that you can do some of the regular maintenance yourself. However, when in need of parts or major service be sure to see your Bartell dealer. For your convenience, we have provided this space to record relevant data about your Dust Collector. When in need of parts or service be prepared to provide your Dust Collector serial number. Locate the serial number now and record in the space below.

Date Purchased:		Type of Machine:	
Dealer Name:		Model:	
Dealer Phone:		Serial Number:	

[illegible]

ROUTINE SERVICE SCHEDULE

Routine Service Intervals		Each Use	After 1.5 months or 50 hrs	Each 3 months or 100 hrs	Each 6 months or 200 hrs	Each 9 months or 300 hrs	Each 12 months or 400 hrs
General Inspection							
Guards	Check		O	O	O	O	O
Warning Stickers	Check		O	O	O	O	O
Test Run	Check Operation		O	O	O	O	O
Fasteners	Check Tightness	O					
Electrical							
Cord	Check for Damage	O					
Plug	Check for Damage	O					
Switches/Buttons	Check	O					
Dust Collector Components							
Belt Drive	Check Tension			O	O	O	O
Dust Collector Compressor							
Oil Level	Check, Refill if low		O	O	O	O	O
Tank	Drain Water	O					
Air Filter	Clean		O	O	O	O	O
Belt Drive	Check Tension, tighten if needed		O	O	O	O	O
Water Separator Tank	Empty When Full	O					
Motor							
Fan	Check - Clean		O	O	O	O	O

ROUTINE SERVICE INTERVALS

Due to the nature and environment of use, Dust Collectors could be exposed to severe operating conditions. Some general maintenance guidelines will extend the useful life of your machine.

- The initial service for your Planer should be performed after 25 hours of use, at which time your mechanic (or authorized repair shop) should complete all the recommended checks in the schedule above. The maintenance log is handy for keeping a record of the maintenance performed and the parts used for servicing your Planer.
- Regular service according to the schedule above will prolong the life of the Dust Collector and prevent expensive repairs.
- Keeping your Dust Collector clean and free from debris is the single most important regular maintenance operation, over and above the checks in the service schedule above, that can be performed. After each use your Planer should be cleaned to remove any dust and debris from the undercarriage and surrounding components.
- In the Service Schedule above, items that should be checked, replaced or adjusted are indicated by "o" in the appropriate column. For ease of recording place, a checkmark through the "o" when the item is complete. If an item is not required or not completed place an "x" through the "o" in the box.
- Failure to have your Dust Collector regularly serviced and properly maintained in accordance with the manufacturer's instructions will lead to premature failure and void the warranty.

OPERATING SAFETY PRECAUTIONS

The R2D2 Dust Collector are constructed according to existing safety rules and regulations. These technical precautions should not be removed or changed under any circumstances. While operating the machines the following points should also be kept in mind:

IMPORTANT: NEVER attempt to disable or circumvent these safety devices. They are present for the operator's protection and any tampering will result in substantial risk to the operator and all present at the job site. If your dust collector's safety devices have been tampered with, do not use the equipment. Immediately contact your sales representative to obtain replacement parts or return the dust collector to your dealer for repairs.

The instructions provided in this manual are done so to ensure the operator's safety as well as that of others, the equipment, and the job site. Failure to follow these guidelines can lead to serious personal injury and even death. The operator and any service personnel should read and understand the entire manual before working with or servicing any Contec Dust Collector.

- The dust collector should always be operated with all safety covers and technical precautions.
- During transport, cleaning, repair or maintenance the dust collector must be disconnected from the power supply.
- Never unplug the machine while it is still running
- The operator should never leave the machine unattended during operation.
- Before leaving the machine, all rotary parts should be brought to a standstill. Electric motors must be disconnected from the power supply. Make sure that the machine cannot roll or move by itself.
- After any maintenance and adjustment all safety covers must be reattached.
- Check power cables regularly for damage, as always disconnect from power before inspecting.
- Ear protectors must be worn.
- Eye protectors must be worn.
- Safety shoes with steel caps must be worn.
- Avoid touching the compressor power unit during use or after use.

OPERATION INSTRUCTIONS

SETTING UP YOUR CT320 PLANER

Your R2D2 Dust Collector comes fully assembled. You will only need to attach the necessary power cables and hoses.

PRIOR TO OPERATION

- Make sure that all dust, debris etc., are thoroughly removed from the unit prior to operation.
- Check hoses and power cables for damage and replace or fix as necessary.
- Check all bolts and screws for tightness and make sure all bolts and screws are securely tightened. Loose bolts and screws may cause damage to the unit.

CONNECTING THE POWER CABLES

- Connect the power cable from the power unit of the R2D2 to the electrical connection box included with the R2D2
- Connect the machines power cord to the female 63a connection of the electrical connection box
- Connect the supply power cable to the male 63a connection of the electrical connection box

ATTENTION: Before working on the Dust Collector bring the motor to a total stand still and disconnect from the power supply.

CAUTION: Motors and cables can be hot after use.

OPERATION

Operating

After attaching the hoses and power cables, operation may begin.

Press the start button on the control panel. If the indicator light on the panel does not stay on after releasing the button, then that means the compressor motor wants to start in the wrong direction. In this case there is a switch with the star and delta symbols on it. Turn the switch to the star position, the motor will begin to turn. Wait 10 seconds and turn the switch to the delta position. **It is important to wait until the motor is not increasing speed before you switch over from the “star” to the “delta” position.**

The dust bin of the R2D2 must be emptied during the operation of the machine. How often it needs to be emptied is dependent on the amount of dust produced during operation.

The R2D2 only removes dry dust or material. Wet or greasy dust will block or damage filter cartridges.

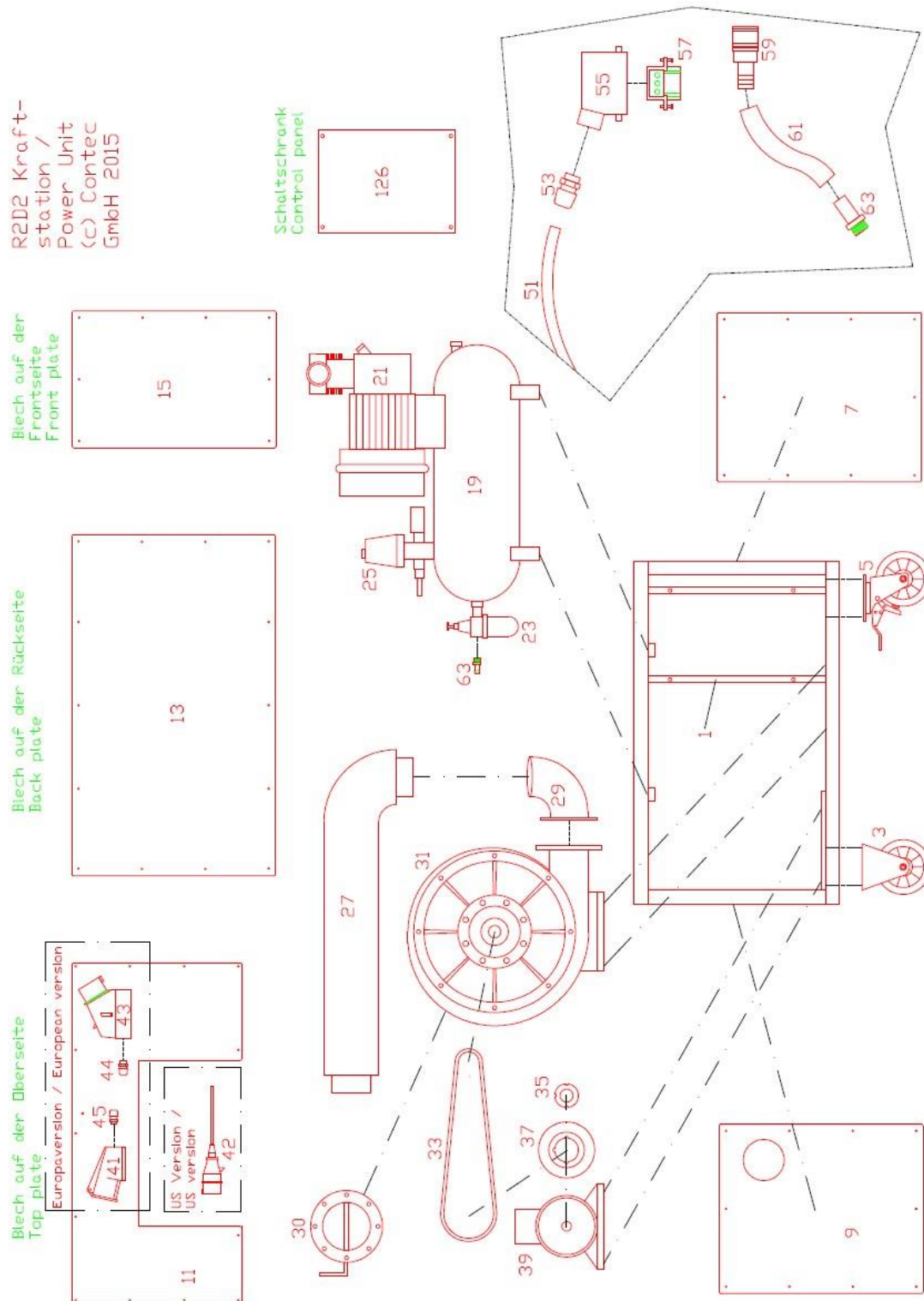
Stopping Procedure

Turn off the machine (Scarifier, Grinder etc.) connected to the Dust Collector, then switch off the dust collector.



PARTS BREAKDOWN

PARTS LIST 1 – R2D2 POWER UNIT

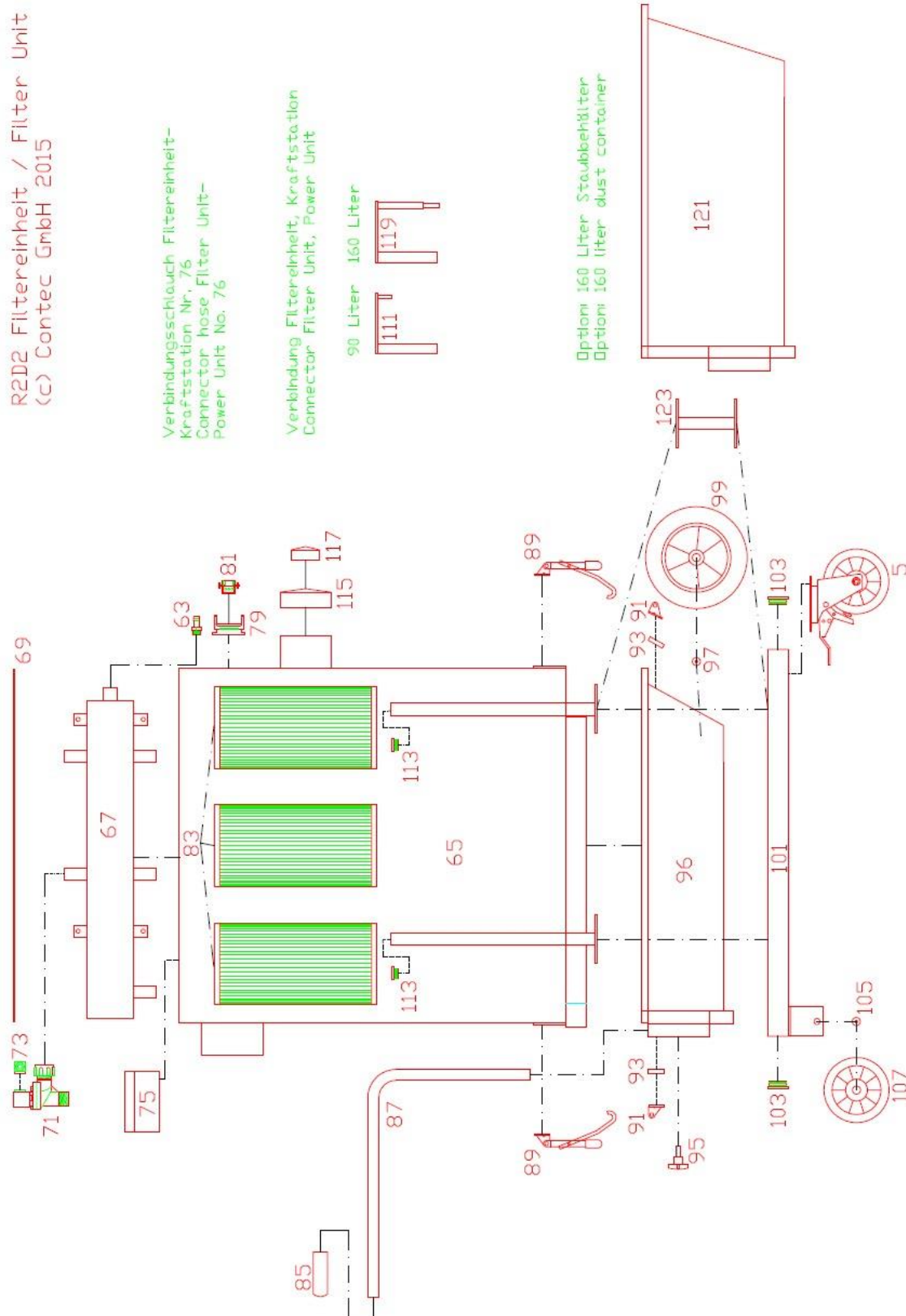


R2D2 POWER UNIT – PARTS LIST 1

Item #	Part #	Description	QTY	Remarks
1	8713100100	Machine Frame Power Unit	1	
3	8780213100	Wheel	2	
5	8780213160	Castor	4	
7	8713100121	Right Side Cover	1	
9	8713100117	Left Side Cover	1	
11	8713100120	Top Cover Power Unit	1	
13	8713100118	Back Side Cover	1	
15	8713100119	Front Side Cover	1	
19	871.1814.00040	Compressor complete	1	
21	871.3645.30310	Compressor Motor with Pump	1	
23	8790260143	Water Trap	1	
25	877.4851.00030	Compressor Pressure Switch	1	
27	8790260063	Silencer	1	
29	8713100200	Connection	1	
30	8790260061	Throttle	1	
31	8790260060	Ventilator	1	
33	8770241162	Belt	2	
35	879024201238	Taper lock	1	
37	8790240160	Pulley	1	
39	8750201055	Motor 5,5 KW	1	
41	8750203202	Wall socket	1	
43	8750203201	Reverse plug	1	
44	87502023M25	Cable Gland	2	
45	87502023M32	Cable Gland	1	
51	8750260308	Cable for Valves	1	
53	87502023M20	Cable Gland	1	
55	8750202013	Socket housing	1	
57	87502020121	Jack in the Housing	1	
59	8790265092	Quick Coupling	1	
61	8770250225	Pressure Hose	1	
63	8790265210	Fitting	3	
126	8750201200	Control Panel complete	1	

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PARTS LIST 2 – R2D2 FILTER UNIT



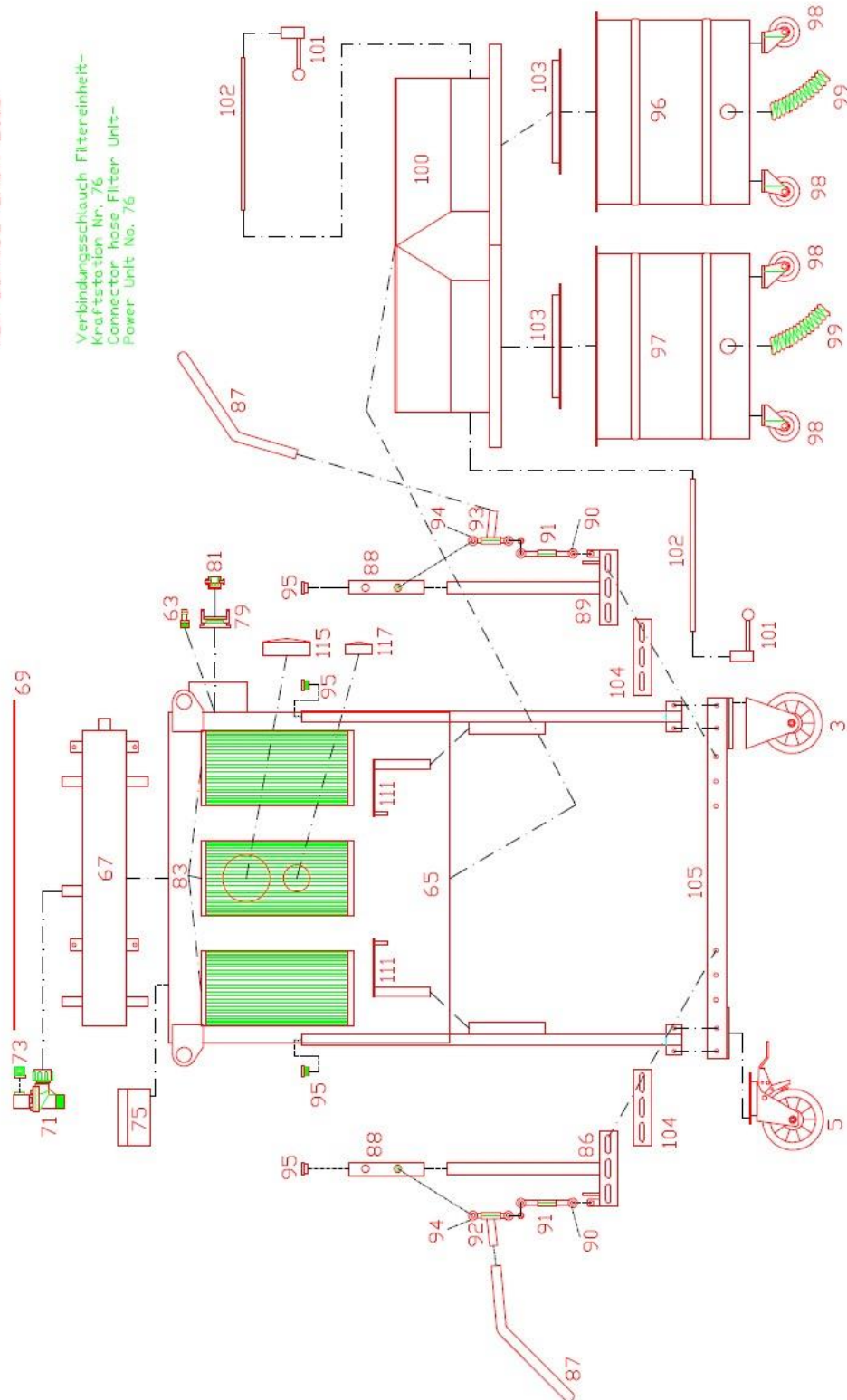
R2D2 FILTER UNIT – PARTS LIST 2

Item #	Part #	Description	QTY	Remarks
5	8780213160	Castor	4	
11	8713100120	Top Cover Power Unit	1	
63	8790265210	Fitting	3	
65	8713100300	Filter Frame	1	
67	8713104000	Pressure Pipe	1	
69	8713100309	Top Cover Filter Unit	1	
71	8790260309	Cleaning Valve with Flange	5	
73	879026030602	Plug for Valve with cable	5	
75	8750201514R2	Electric Box	1	
79	8750202012	Plug housing	1	
81	87502020131	Plug Pin Mounting	1	
83	8790204040	Filter Cartridge Tornado/R2D2	5	
85	8770212610	Rubber Grip	2	
87	8713100505	Handle for Dust Container	2	
89	8790204540	Spanner	4	
91	8790204541	Bracket for Spanner	4	
93	8713100502	Spacer	4	
95	8760301030	Screw grip	2	
96	8713100500K	Dustbin 90 Liter Complete	1	
97	8713100503	Axis for Wheel Dustbin	1	
99	8780203260	Wheel	1	
101	8713100400	Carriage for Filter Unit	1	
103	8770275030	Plastic Plug	4	
105	8713100404	Wheel Axle	2	
107	8780203160	Wheel	2	
111	8713100800	Connection Between Filter and power unit – 90L	2	
113	8770273030	Plug	4	
115	8770270125	Cap 125 mm	1	
117	8770270070	Cap 70 mm	1	
119	8713100801	Connector Filter/Power unit	1	
121	8713100600K	Dustbin 160 Liter complete 1	1	
123	8713100607	Adapter for 160 Liter Dustbin	4	

PARTS LIST 3 – R2D2 FILTER UNIT/BAG VERSION

R2D2 Filtereinheit Sackversion /
Filter Unit / bag version
(c) Contec GmbH 2015

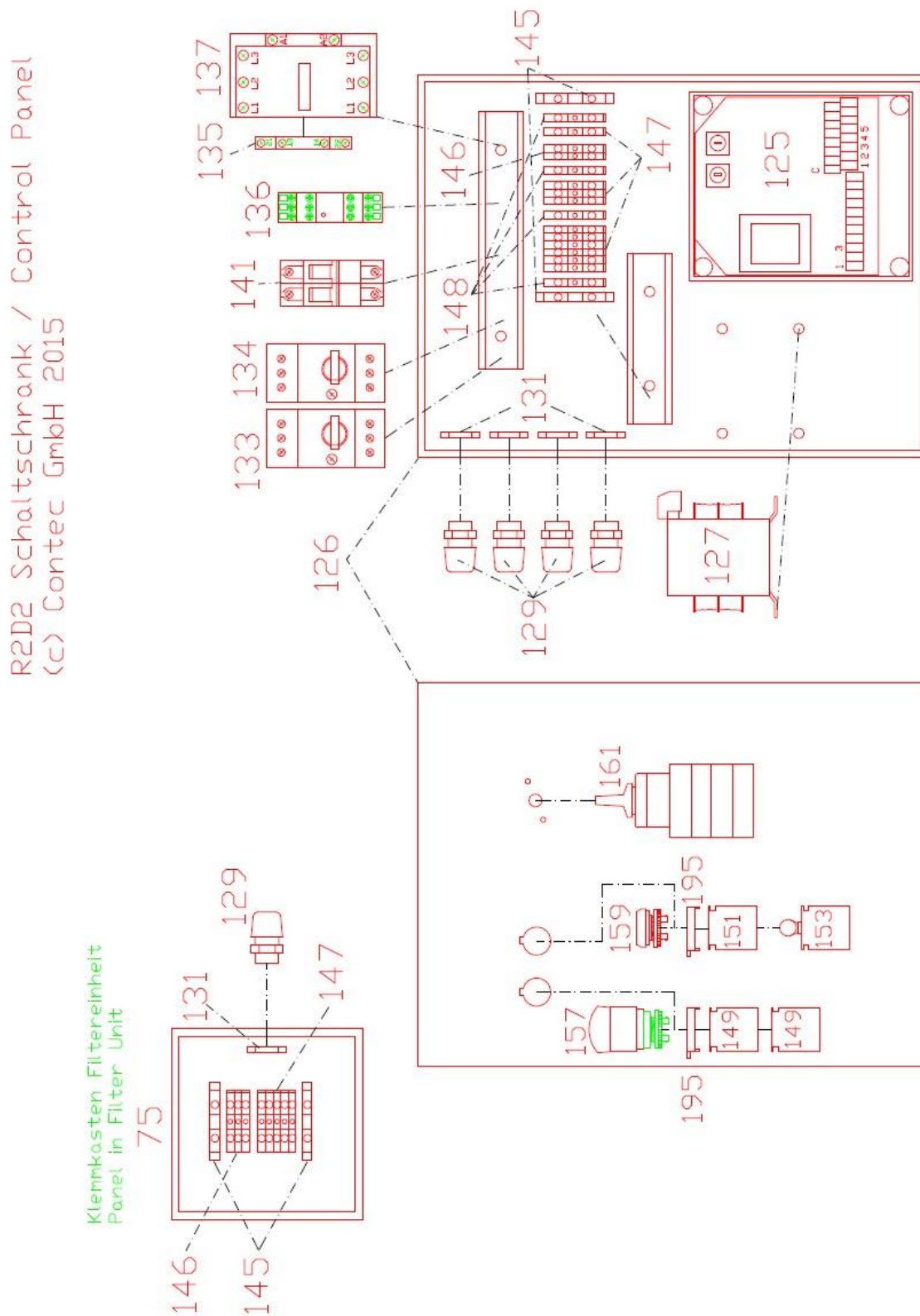
Verbindungsschlauch Filtereinheit-
Kraftstation Nr. 76
Connector hose Filter Unit-
Power Unit No. 76



R2D2 FILTER UNIT/BAG VERSION – PARTS LIST 3

Item #	Part #	Description	QTY	Remarks
3	8780213100	Wheel	2	
5	8780213160	Castor	4	
63	8790265210	Fitting	3	
65	8713100900	Filter Frame Bag Version	1	
67	8713104000	Pressure Pipe	1	
69	8713100309	Top Cover Filter Unit	1	
71	8790260309	Cleaning Valve with Flange	5	
73	879026030602	Plug for Valve with cable	5	
75	8750201514R2	Electric Box	1	
79	8750202012	Plug housing	1	
81	87502020131	Plug Pin Mounting	1	
83	8790204040	Filter Cartridge Tornado/R2D2	5	
86	8716100600L	Guide Pipe Left	2	
87	8713101500	Lift Handle	2	
88	8716100700	Lifting Pip Left/Right	4	
89	8716100600R	Guide Pipe Right	2	
90	8723601241	Eye Bolt Short	4	
91	879741250	Long Nut	4	
92	8713101610L	Lifting Jack Bracket Left	1	
93	8713101610R	Lifting Jacket Bracket Right	1	
94	8723601240	Eye Bolt	4	
95	8770273030	Plug	8	
96	8716101200	Dustbin	1	
97	8716101210	Dustbin Left	1	
98	8780206280	Castor	8	
99	8770250450	Pipe	2	
100	8713101001	Chute	1	
101	8716100303	Lever Dust Flap	2	
102	8716100309	Axis Dust Flap	2	
103	8713101703	Dust Flap	2	
104	8716100601U	Lifting Bar Spacer	4	
105	8713101800	Carriage for Filter Unit	1	
111	8713100801	Connector Filter/Power unit	2	
115	8770270125	Cap 125 mm	1	
117	8770270070	Cap 70 mm	1	

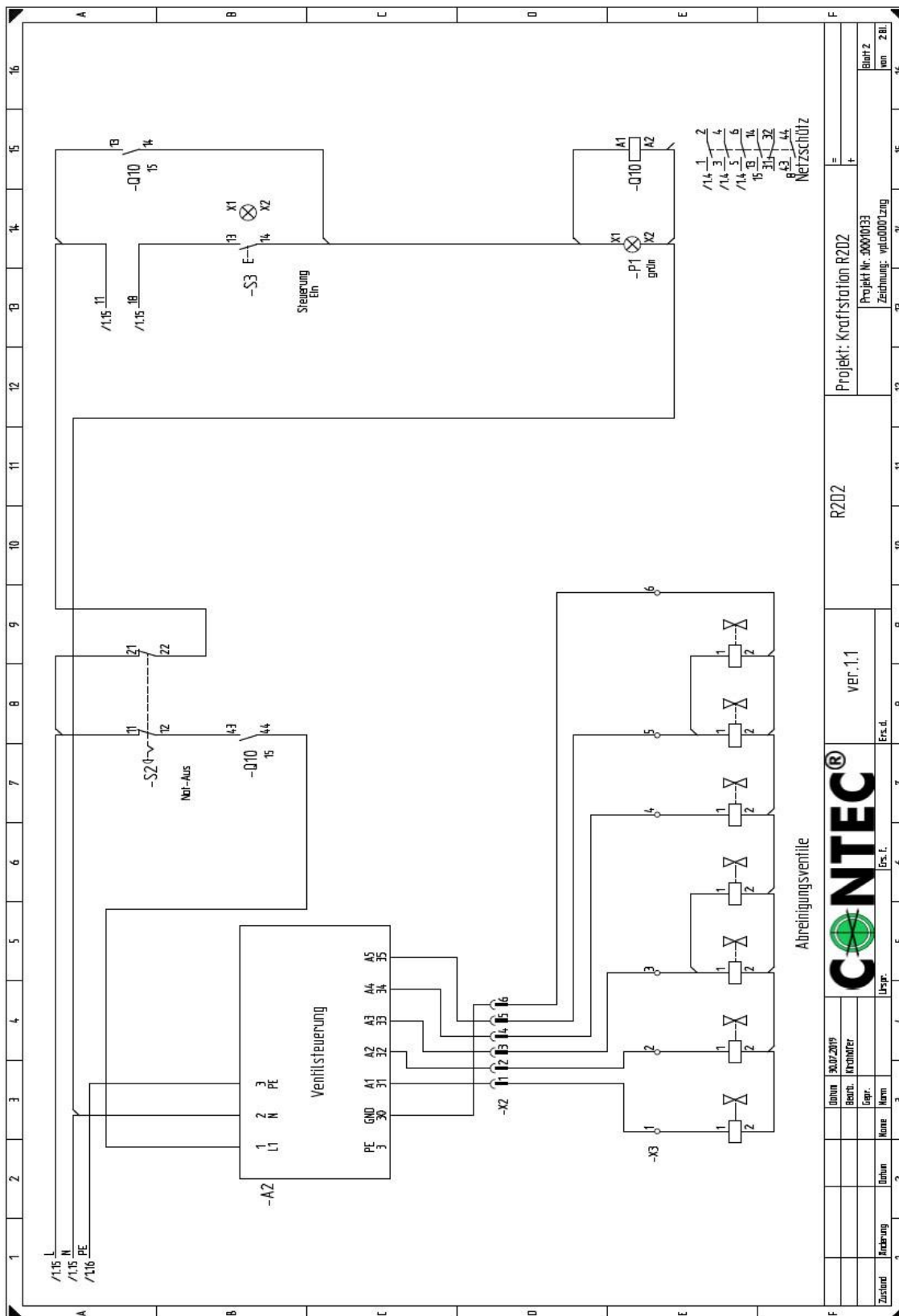
PARTS LIST 4 – R2D2 CONTROL PANEL



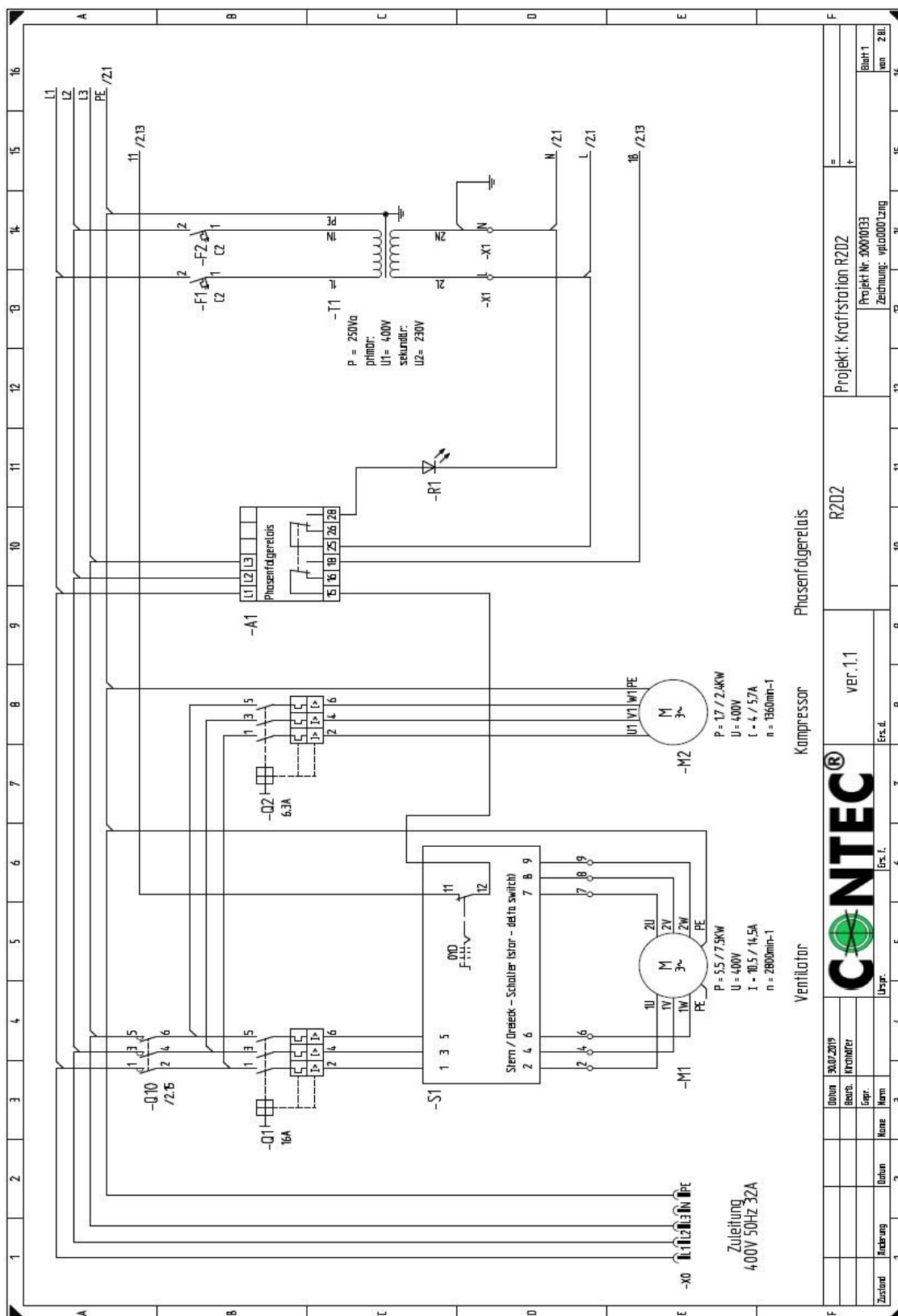
R2D2 FILTER UNIT/BAG VERSION – PARTS LIST 3

Item #	Part #	Description	QTY	Remarks
75	8750201514R2	Electric Box	1	
125	8790260308	Control Circuit Valves	1	
126	8750201200	Control Panel complete	1	
127	8750204001	Transformer	1	
129	87502023M2514	Cable Gland	5	
131	87502023GMM2	Nut	5	
133	87PKZ0156,3	Motor Protective	1	
134	8751203001	Motor Protective	1	
135	8750203005SA	Auxiliary Block	1	
136	87502030PF	Phase Guard	1	
137	8751203104	Main Contactor	1	
141	8750105606	Circuit Breaker	2	
145	8750111102	Terminal green/yellow	4	
146	8750111106	Terminal blue	5	
147	8750111104	Terminal Beige	15	
148	8750111107	Terminal green/yellow	4	
149	8750203308	Contact Element	2	
151	8750203307	Contact Element	1	
153	87502033061	LED Element	1	
157	8750202301	Emergency Switch	1	
159	8750202302	Start Button	1	
161	8750202004	Star Delta Switch	1	
195	8750202309	Mounting Adapter	2	

ELECTRICAL SCHEMATIC 1 – R2D2 CONTROL PANEL



ELECTRICAL SCHEMATIC 2 – R2D2 COMPRESSOR



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