

BIG DUTCHMAN

Spare part Catalog Climate

March 2019



Big Dutchman®

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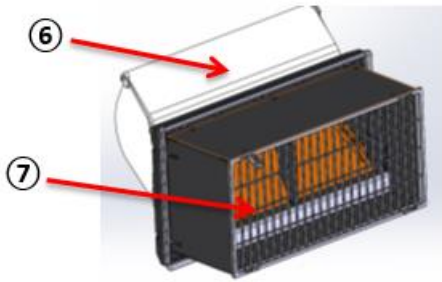
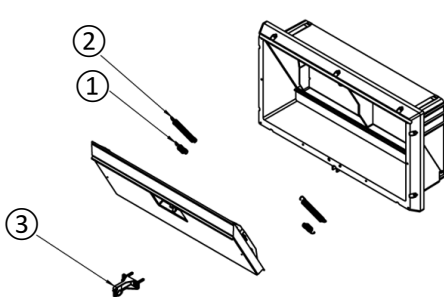
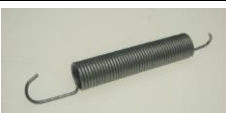
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1 Fresh Air

1.1 CL Flange Inlet

1.1.1 CL1200 CL1211 CL1911 Flange Inlet

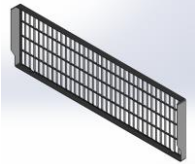
		87-01-0698 Flange -fresh air inlet CL-1911-B/F wo/net 87-01-0699 Flange-fresh air inlet CL-1911-B/F w/net coarse 60x20mm 60-43-4011 Fresh air inlet CL-1911/F 60-43-3009 Flange-fresh air inlet CL-1200-B/F 60-44-3111 Flange-fresh air inlet CL-2-1211/F	
			
1		60-43-3913 60-43-3903	Tension spring short for air inlet CL1200B/F (433913) Tension spring short for air inlet CL1211/F-1220/24/29/33/1911
2		60-43-3914 60-43-3904	Tension spring long for air inlet CL1200B/F Tension spring long for air inlet CL1211/F-1220/24/29/33/1911
3		60-44-0194	Operation-kit for fresh air inlet CL-1200-B/F
4		60-44-3199	Bracket w/longer idler roller for air inlets CL-1220 .1224



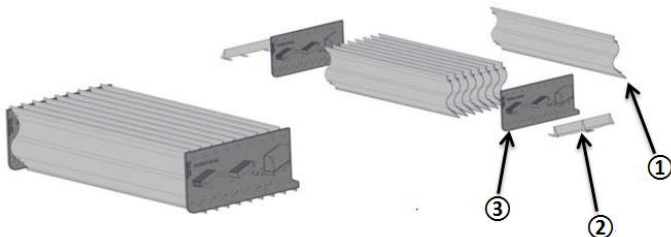
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5		81-02-4883 46-70-0437	Regulating set f/CL1200 w/1.5m long cord and 2 pulleys (433021) (closed) Adjusting set f/CL1200 w/cord 1.5m and 2 pulleys (replacement)
6		60-43-4015 60-44-3015	Grille coarse 65x20 for CL-1911 Grille coarse 65x20 for CL-2-1200
7		60-43-3120 60-43-3125	Air direction plate short f/CL-1200 cpl incl. assem.-kit V13 Air direction plate short f/CL-1911 cpl incl. assem kit V13

1.1.2 Light Trap for Cowl Flange Inlet

		60-43-3310 Light trap cpl for cowl CL-1200 60-43-3311 Light trap cpl for cowl CL-1900	
		60-43-3090 Cowl for fresh air inlet CL-1200 cpl 66.8x52.3x34.4cm 60-43-3095 Cowl for fresh air inlet CL-1900 cpl 95.2x52.3x34.4cm	
			
1		60-43-3306	Lamella f/light trap cowl CL-1200
		60-43-3303	Lamella f/light trap cowl CL-1900
2		60-43-3304	Holder f/light trap cowl CL-1200/-1900
3		60-43-3305	Side plate f/light trap cowl CL-1200/-1900

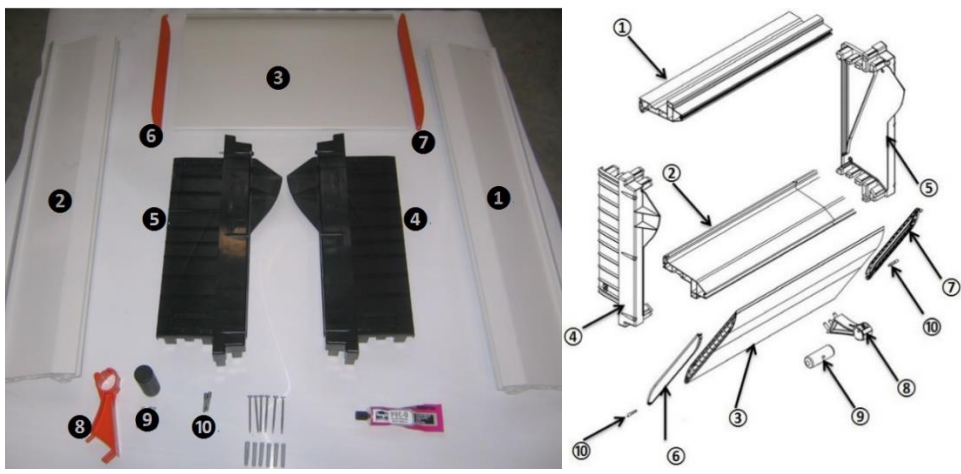


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1.2 CL Flex Air Inlet

1.2.1 CL Flex Series Air Inlet

		60-25-0024 Air inlet CL 2400 FLEX unmounted 60-25-0030 Air inlet CL 3000 FLEX unmounted 60-25-0034 Air inlet CL 3400 FLEX unmounted 60-25-0040 Air inlet CL 3800 FLEX unmounted 60-25-0045 Air inlet CL 4600 FLEX unmounted 60-25-0130 CL 2800 FLEX/BC air inlet unmounted	
			
1		60-25-0001	Frame profile top 650 mm cpl. for FLEX air inlet
		60-25-0123	Frame profile top 760 mm cpl. for FLEX-BC air inlet
		60-25-0023	Frame profile top 800 mm cpl. for FLEX air inlet
		60-25-0018	Frame profile top 900 mm cpl. for FLEX air inlet
		60-25-0006	Frame profile top 1000 mm cpl. for FLEX air inlet
		60-25-0017	Frame profile top 1200 mm cpl. for FLEX air inlet
2		60-25-0002	Frame profile bottom 650mm cpl f/FLEX air inlet
		60-25-0125	Frame profile bottom 760mm cpl for FLEX-BC air inlet
		60-25-0025	Frame profile bottom 800mm cpl for FLEX air inlet
		60-25-0019	Frame profile bottom 900mm cpl for FLEX air inlet
		60-25-0007	Frame profile bottom 1000mm cpl for FLEX air inlet
		60-25-0016	Frame profile lower 1200mm w/sealing lip for Flex air inl
3		60-25-0003	Flap element 638 cpl for FLEX air inlet
		60-25-0126	Flap element 748 cpl for FLEX-BC air inlet
		60-25-0026	Flap element 788 cpl for FLEX air inlet
		60-25-0020	Flap element 888 mm cpl for FLEX air inlet
		60-25-0004	Flap element 988 cpl for FLEX air inlet
		60-25-0015	Flap element 1188 mm cpl for FLEX air inlet


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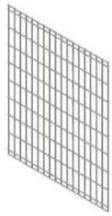
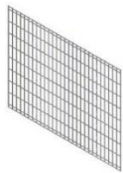
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4		60-25-0032	Side part right for FLEX air inlet V13
5		60-25-0033	Side part left for FLEX air inlet V13
6		83-03-3282	Cover right for FLEX air inlet
7		83-03-5865	Cover left for FLEX air inlet
8		83-03-3285	Weight rest for FLEX air inlet
9		83-04-7743	Weight for FLEX air inlet
10		83-03-8138	Bearing pin SST for flap for FLEX air inlet (100 pcs)



- 60-43-3070 Grille 55x20 ZnAl for CL-2400 Flex
- 60-25-0150 Grille 55x20 ZnAl for CL 2800 Flex-BC
- 60-43-3071 Grille 55x20 ZnAl for CL-3000 Flex
- 60-43-3072 Grille 55x20 ZnAl for CL-3400 Flex
- 60-43-3073 Grille 55x20 ZnAl for CL-3800 Flex
- 60-43-3074 Grille 55x20 ZnAl for CL-4600 Flex

	CL-2400	CL-2800	CL-3000	CL-3400	CL-3800	CL-4600
83-05-7583 Grille coarse meshed 55 x 20 for CL-Flex 620	1pc			1pc	1pc	2pcs
83-04-7804 Grille coarse meshed 55 x 20 for CL-Flex 380		2pcs	2pcs	1pc	1pc	

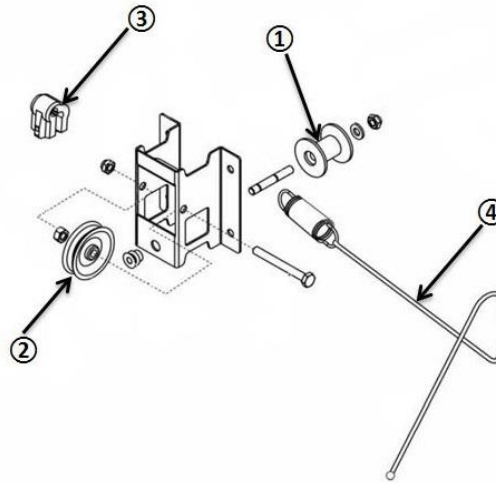
1		83-04-7804	Grille coarse meshed 55 x 20 for CL-Flex 380mm module
2		83-05-7583	Grille coarse meshed 55 x 20 for CL-Flex 620mm module
3		83-09-1160	Turning clip for Grille CL Flex air inletTurning



1.2.3 Control Set for Flex Air Inlet

87-00-7592 Control set (CN) for FLEX air inlet type 2 cpl w/tension spring

83-09-1692 Control set for FLEX air inlet



1		60-40-5311	Roller 17/32x30 b 6.1
2		60-40-5310	Roller 30/40x11 b 6.1
3		60-41-2006	clamp for tension rod 8mm
4		83-12-2691	Traction rope 3.5x1250mm PES w/spring f/air inlet FLEX
5		30-61-3485	Plug PE for rope wo/nut (100 pcs)
6		30-61-3486	Nut PE f/rope (100 pcs)



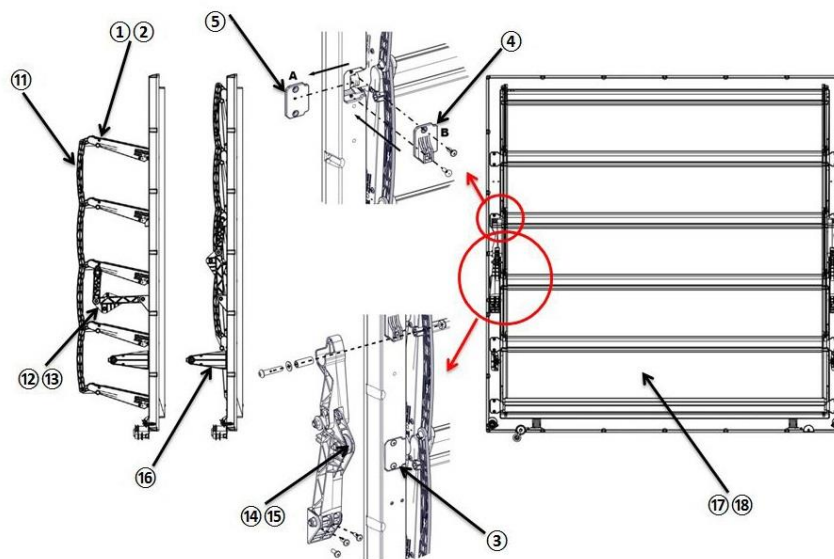
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1.3 CL 17K Tunnel Inlet

60-47-3415 Fresh air inlet MVT-17M fully insulated
 60-47-3416 Fresh air inlet MVT-17M semi insulated



1		60-47-4400 (520091)	End cap f/flap MVT-10/17M Type A
2		60-47-4401 (526455)	End cap f/flap MVT-10/17M Type B
3		60-47-4402 (526453)	Covering plate f/frame MVT-10/17M

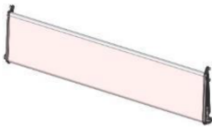
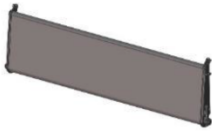
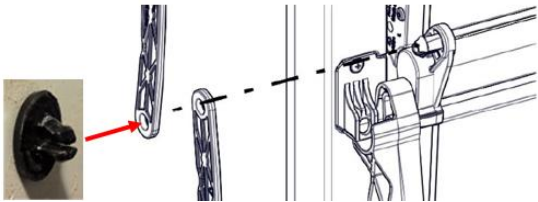


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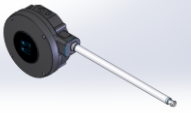
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4		60-47-4403 (526477)	Covering plate w/ lock f/frame MVT-10/17M Type B
5		60-47-4404 (526478)	Covering plate w/ lock f/frame MVT-10/17M Type A
6		60-47-4406 (520092)	Spring f/flap MVT-10/17M type A
7		60-47-4405 (520091)	Spring f/flap MVT-10/17M type B
8		60-47-4407 (531256)	Sealing profile f/flap MVT-17M-1414mm long
		60-47-4428 (531250)	Sealing profile f/flap MVT-10M 1288mm long
9		60-47-4408 (531293)	Sealing profile f/flap MVT-17M 1378mm long
		60-47-4429 (531251)	Sealing profile f/flap MVT-10M 1189mm long
10		60-47-4409 (531294)	Sealing profile f/bottom edge MVT-17M 1353mm long
		60-47-4430 (531252)	Sealing profile f/ bottom edge MVT-10M 1162mm long
11		60-47-4410 (526458)	Connection rod f/flap MVT-10/17M
12		60-47-4413 (526475)	Knee joint f/MVT-10/17-M type A
13		60-47-4411	Knee joint f/MVT-10/17-M type B



14		60-47-4414 (520096)	Retaining clip f/knee joint MVT-17M type A
15		60-47-4412 (520095)	Retaining clip f/knee joint MVT-10/17M type B
16		60-47-4415 (526476)	Idler pulley f/frame MVT-10/17M
17		60-47-4416 (526480)	Flap fully insulated f/MVT-17M
		60-47-4431 (526490)	Flap fully insulated f/MVT-10M
18		60-47-4417 (526481)	Flap semi insulated f/MVT-17m
		60-47-4432 (526491)	Flap semi insulated f/MVT-10m
19		60-47-4433 (526492)	Flap semi insulated transparent f/MVT-10m
20		60-47-4418 (526449)	Plug f/end cap MVT-10/17M 

1.4 Servo Motor for Air Inlets

1		60-43-2114	Actuator 115/230V CL-175-100
2		60-43-2115	Actuator 115/230V CL-175-150
3		60-43-2116	Actuator 115/230V CL-175-300
4		60-43-2117	Actuator 115/230V CL-175-600
5		87-02-0351	Servo motor 230V 1PH 0.6A 50/60Hz 400TS-P stroke 400mm IP66
6		87-02-0352	Servo motor 230V 1PH 0.6A 50/60Hz 650TS-P stroke 650mm IP66
7		87-02-0353	Servo motor DC 24V 4A 400TS-P stroke 400mm 400mm IP66
8		87-02-0354	Servo motor 24V 4A 650TS-P stroke 650mm IP66
9		60-41-1848	Mounting Set CL-175/2HD
10		60-41-1845	Mounting plate BD cpl for CL-175

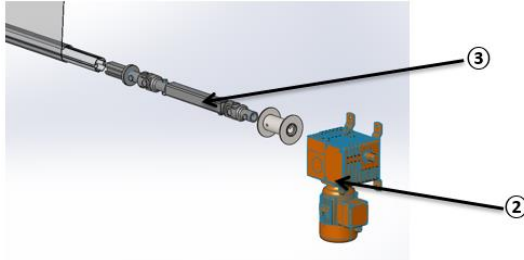
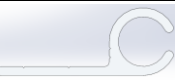
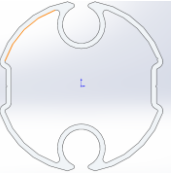
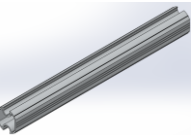
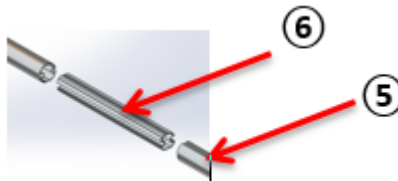


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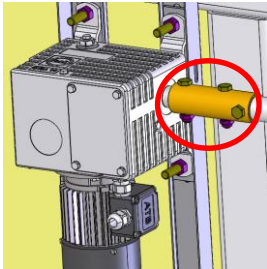
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1.5 Roll Curtains

1		60-50-3350	Winch Motor EWA10 cpl for tunnel inlet
2		60-50-3288	Winch motor EWA12 230V 50Hz 2.2A 150Nm 3,1rpm travel 13U=2800 
3		60-50-3305 60-50-3306	Cardan joint telescopic max70Nm max adjustment 130cm Cardan joint telescopic max70Nm max adjustment 180cm 
4		83-17-2788	Keder rail ALU-5000 1 x piping groove
5		83-17-2789	Roller tube BD ALU-D50x1.5x5000 2 piping groove
6		83-17-2790	Coupling f/roller tube ALU w/2 piping groove 
7		60-50-3219	Universal-potentiometer Kit 10kOhm f/EWA <i>Further details : Product information 1352</i>

8		60-50-3211 60-50-3208 60-50-3212 60-50-3213	Feedback potentiometer f/EWA (280mm) 1rotation 10kOhm Feedback potentiometer f/EWA (850mm) 3rotations 10kOhm Feedback potentiometer f/EWA (1400mm) 5rotations 10kOhm Feedback potentiometer f/EWA (2800mm) 10rotations 10kOhm <i>Further details : Product information 1352</i>
9		60-50-3218	Position indicator f/EWA wo/poti gear with 20/28/37 teeth <i>Further details : Product information 1352</i>
10		91-04-0740 91-04-0741	Micro terminal MT 1.5 gray Connection cable 150mm black f/potentiometer EWA <i>Further details : Product information 1352</i>
11		60-50-3322	Joint coupling for cardan joint telescopic <i>For Cardan Joint Telescopic max 70Nm</i> 
12		81-23-0023	Joint coupling 120Nm for cardan joint <i>For Cardan Joint Telescopic max. 120Nm & max. 200Nm</i>
13		60-50-3321	Adapter for tube 40x40 for cardan joint telescopic <i>For Cardan Joint Telescopic max 70Nm</i>
14		81-21-8908	Joints 30deg.cplt.f/auger S102 set 28 (4110971)only parts ins <i>For Cardan Joint Telescopic max 70Nm (without Roll)</i>

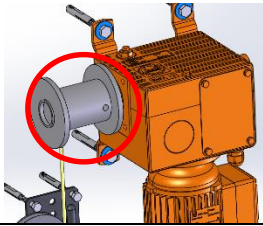
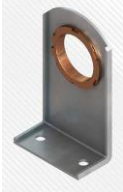
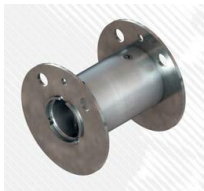
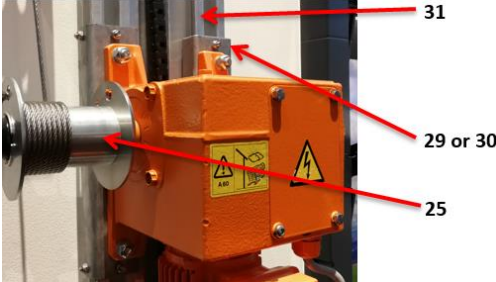


15		81-38-7788	Connector roller tube - cardan joint telescopic max. 70Nm <i>For Cardan Joint telescopic max. 120Nm & max. 200Nm (including roll)</i> 
16		81-22-3576	Cardan coupling adapter We.21 for cardan joint telescopic (not in E2) <i>For Cardan Joint Telescopic max. 70Nm</i> 
17		60-50-3323	Adapter GKA 06.0680 f/cardan joint on deflection pulley <i>Connect between Deflection gear unit KGO 150Nm 1:1 and drum</i>
18		60-50-3232	Bush coupling 132mm for EWA 10/12/14 <i>Connection between winch motor & 1" tube</i> 



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20		60-50-3230 60-50-3231	Cable pulley ATR D61 left-hand f/drive unit EWA/HWA Cable pulley ATR D61 right-hand f/drive unit EWA/HWA 
21		60-50-3263	Cable pulley STR D55 fluted ALU
22		38-94-3650	Pedestal ball bearing KLG35 f/pipe 1"
23		38-94-3651	Support f/pedestal ball bearing 70mm shaft hight
24		83-05-8773	Slide bearing ELD12 angled 70mm brass galv
25		60-50-3264	Plain bearing ELD22 angled plastic 70mm galv
19		60-50-3242	Cable pulley ATR D54 even f/drive unit EWA/HWA 


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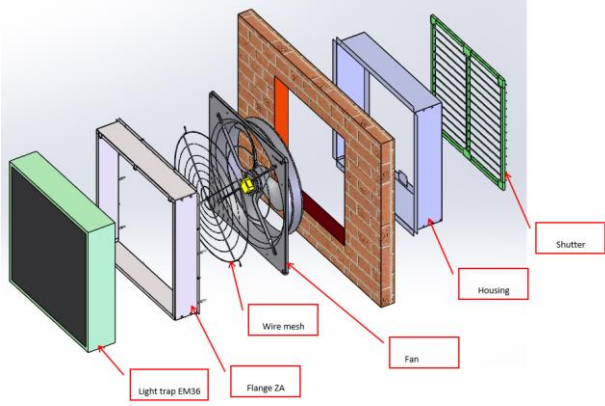
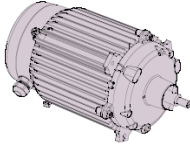
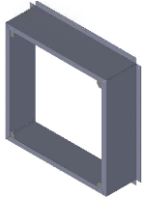
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26		60-50-3374	Cable guiding chain 1.0m
			
27		60-50-3244	Start clip for cable guiding chain incl. screws
28		60-50-3245	End clip for cable guiding chain
29		60-50-3382	Rolling sled f/RMA20 50Nm 12x12mm
30		60-50-3246	Rolling sled for EWA 10/12/14 with screws
31		60-50-3384	Guiding profile 2000 Alu for 2 rolling sleds



2 Exhaust Air

2.1 Wall Axial Fans

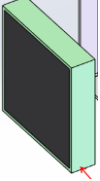
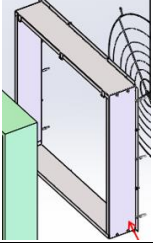
			60-47-4592 Fan 6D92-Q wo/wire mesh guard 21300m³ 400V 730W 1.7A 60-47-5592 Fan 6E92-Q wo/wire mesh guard 21100m³ 230V 790W 4.2A 82-90-3269 Fan 8D92-Q wo/wire mesh guard 21300m³ 3phase, 400V/60Hz 82-90-3268 Fan 8E92-Q wo/wiremesh guard 20500 m³ 220V 60Hz 1Ph 3.76A 
1		82-90-3425	Wire mesh guard D92-Q (ROSL92)
2		82-90-3292	Shutter for fan 6E92-Q / 6D92-Q
3		81-39-0421 81-34-6542	Impeller for fan 6D92-Q 50Hz (plastic hub) Impeller for FAN 8E92-Q & 8D92-Q for 60Hz
4		60-47-8028 82-90-2969 60-47-8022 81-34-0888	Fan-motor 6D92Q 230/400V 50Hz Electric Motor 240/420-3-60 f/GF-C92 Fan motor 6E92Q 230V 50Hz 3.5A Fan motor 8E92Q 220V 60Hz
5		82-90-3291	Housing cpl for shutter 6E92-Q / 6D92-Q



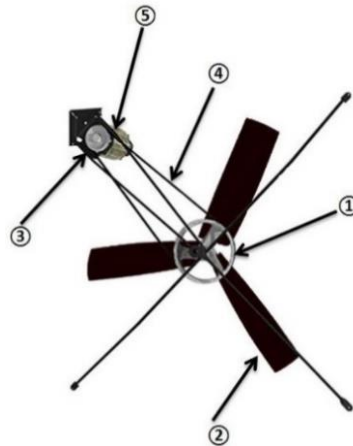
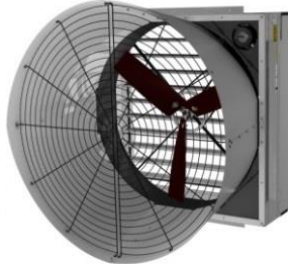
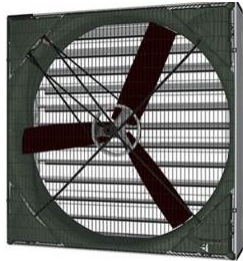
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6		60-21-1398	Light trap LF36 EM36
7		60-21-1390	Flange 1100x1100x500 galv

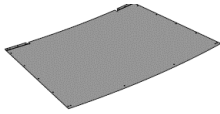
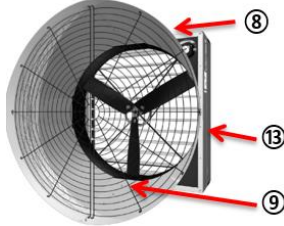
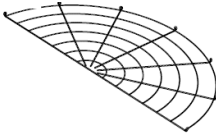
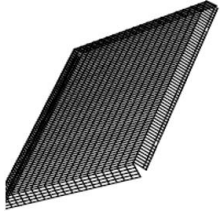
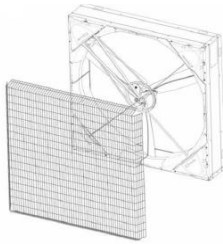
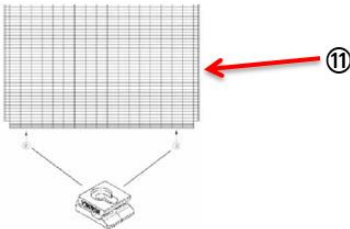
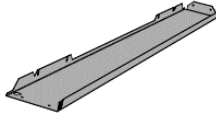
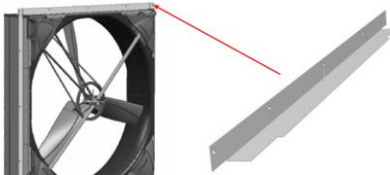


2.2 AirMaster-V130 VC13060-25-4141 Fan BD-V130-3-1.5HP E15-R 43700m³ 400-3-50 assembled82-90-2154 Fan BDA-VC130-3-1.5HP 47700m³ 400V 3PH 50Hz assem. w/cone

1		60-25-4206 60-25-4237	Hub V130 for 3 blades Hub V130 for 5 blades
2	 x 3	60-25-4215 60-25-4238	Blade kit V130-3 black Blade kit V130-5 black
3		60-25-4289	V-belt pulley 1gr A123 SPA b19
4		60-25-4285 60-25-4286	V-belt V130-B for 50Hz V-belt V130-A for 60Hz
5		60-25-4335	Electric motor-R 1.50HP 230/400V 50Hz 3Ph V14
		60-25-4336	Electric motor-R 1.50HP 230/400V 60Hz 3Ph V14
6		81-36-1672	Cover for fan motor V130

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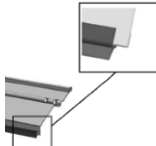
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7		82-90-3147	Retrofit Kit (ZA 167B) f/60-25-4335 Elec mtr-R 1.50H 230/400 (Kit to convert rotor motor to multifan motor)
8		60-25-4256	Cone segment VC130 
9		60-25-4257	Wire mesh guard segment VC130
10		60-25-4258	Fixing material for cone VC130 assembled
11		60-25-4229	Wire mesh guard suction side V130 
12		60-25-4415	Mounting clip for wire mesh guard V130 V12 
13		60-25-4412	Side part galv V130 V10
14		60-25-4239	Angle Bracket 1480mm V130 


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2.3 Shutter for AirMaster V130

		60-25-4411 Shutter V130 cpl V09 assembled 60-25-4303 Shutter V130 cpl V09 unassembled	
1		60-25-4298	Bearing housing left for shutter V130/V140
2		60-25-4299	Bearing housing right for shutter V130/V140
3		60-25-4423	Reaction arm set for shutter V130/V140 V09
4		60-25-4308	Lamella 1294 complete
5		60-25-4224	Profiled joint 1294mm

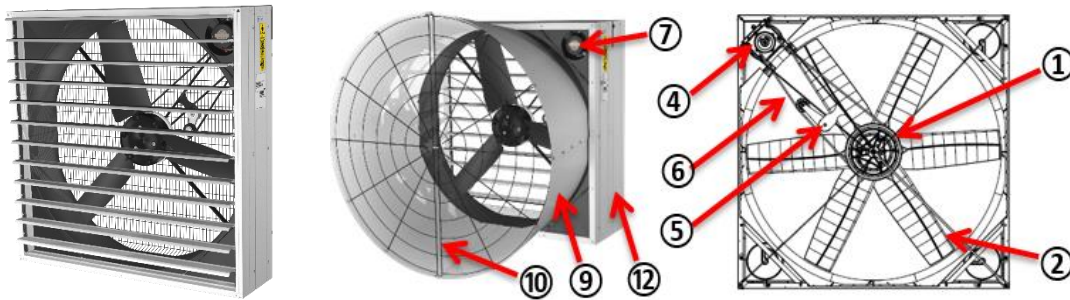

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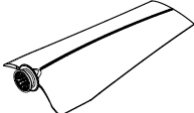
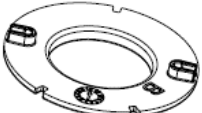
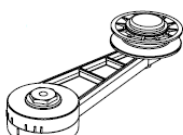
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2.4 AirMaster V140 VC140

60-25-5100 Fan BD-V140-6-2.0HP E15-R 46200m³ 400-3-50 assembled

82-90-3389 Fan BD-VC140-6-2.0HP E15 47900m³ 400-3-50 assembled w/cone



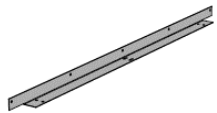
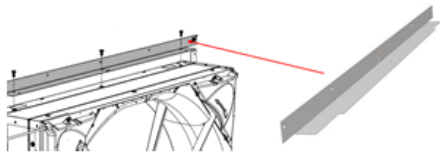
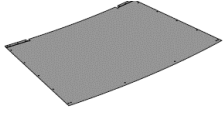
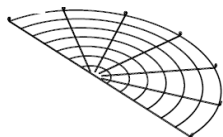
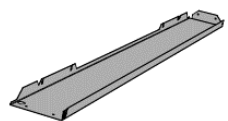
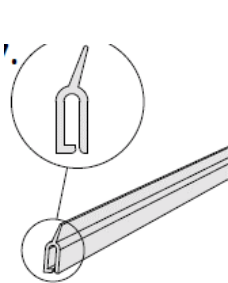
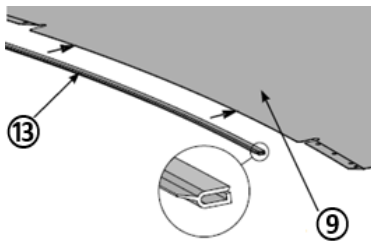
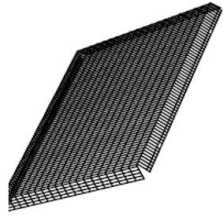
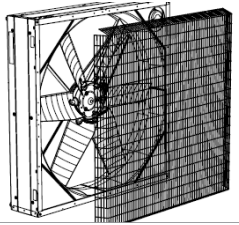
1		60-25-4332	Hub V140
2		60-25-4333 60-25-4334	Blade assembly V140-3 black Blade assembly V140-6 black
3		60-25-4435	Position ring for V140-6 50Hz
		60-25-4436	Position ring for V140-6 60Hz
4		60-25-4351	V-belt pulley 1gr A108 SPA b19
		60-25-4354	V-belt pulley 1gr A100D SPA b19
5		60-48-4822	V-belt tensioner V140
6		60-25-4329	V-belt V140



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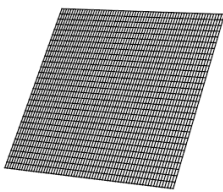
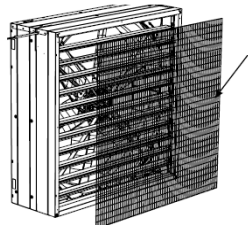
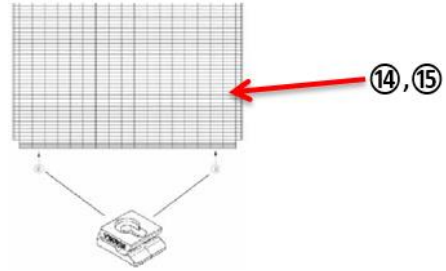
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7		60-25-4366	Electric motor 2.0HP 230/400V 50Hz 3Ph on/off
		60-25-4367	Electric motor 2.0HP 230/400V 60Hz 3Ph on/off
8		60-25-5450	Angle bracket 1578mm V140 
9		60-25-4318	Cone segment VC140
10		60-25-4319	Wire mesh guard segment VC140
11		60-25-4320	Fixing material for cone VC140 assembled
12		60-25-5453	Frame part for intermediate frame V140
13		60-25-4432	Profiled joint 780mm 
14		60-25-4317	Wire mesh guard suction side V140 


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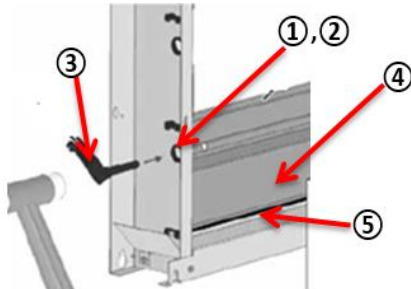
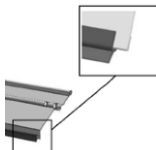
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15		60-25-4324	Wire mesh guard CE suction side VC140 
16		60-25-4415	Mounting clip for wire mesh guard V130 V12 

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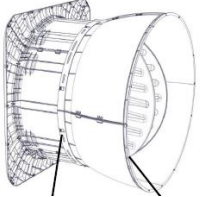
2.5 Shutter for AirMaster V140

		60-25-4328 Shutter V140 cpl unassembled 	
1		60-25-4298	Bearing housing left for shutter V130/V140
2		60-25-4299	Bearing housing right for shutter V130/V140
3		60-25-4423	Reaction arm set for shutter V130/V140 V09
4		60-25-4344	Lamella 1392mm for V140
5		60-25-4439	Profiled joint 1392mm


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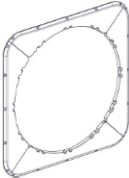
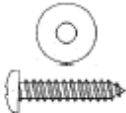
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2.6 Airmaster Blue 170C

			60-25-3741 Fan BD-Blue 170C-6 400V 3 Ph 50/60Hz 4.1A 65800m ³ /h with ornamental blind
1		60-25-4373	Frame unit f/fan BD-Blue 170 cpl
2		90-00-1522 90-00-1530	Electric motor 2.30kW 3Ph 50/60Hz 400V 4.1A f/BD/Blue 170C E-Motor 2.2kW 3Ph 50/60Hz 400V 5.9A f/BD-Blue 170C ON/OFF
3		60-48-4825 60-48-4823 60-48-4824	Blade assy f/fan BD-Blue adjustable 50/60Hz Blade kit f/fan BD-Blue ON/OFF 50Hz Blade kit f/fan BD-Blue ON/OFF 60Hz
4		60-25-3722	Wire mesh cone cpl/f/BD-Blue 170C
5		60-21-1406	Light trap Brown Out cpl f/BD-Blue 170C
6		60-21-1407	Light trap Black out cpl f/BD-Blue 170C


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7		60-41-1846	Mounting set f/BD-Blue 170C
8		60-25-3720	Ornamental blinds cpl. f/BD-Blue 170C
9		82-93-8428	VT-210 High performance sealant-GREY
10		60-21-1106	Screw set f/BD-Blue 170C



2.6 EM36

		60-21-1630 Fan EM36, 0.75KW, galv 17900m ³ 400-3-50 ass. Max. 60Pa	
1		60-20-1072	Electric motor 1.00HP 230/400V 50Hz 3PH single speed
2		87-01-0072	Complete propeller galv for EM36 (different article number, not start with 87)
3		60-20-1114	Central pulley for EMC50/EM50/EM36
4		60-20-1131	V-belt 13x1880 A74 for EM36
5		60-21-1398	Light Trap LF36

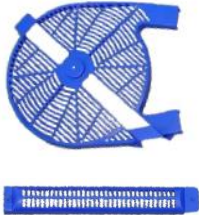

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2.7 EM50

		60-25-1030 Fan EM50 1,00HP SST 37020m3 3PH 50hz 60-25-3030 Fan EM50 1,50HP SST 41930m3 3PH 50Hz 60-25-1033 Fan EM50 1,00HP SST 35040m3 3PH 60Hz 82-90-0008 Fan EM50 1,50HP SST Knockdown 41930m3 3PH 60Hz	
1		60-25-3047	Impeller for fan EM50 SST (2515500)
2		82-90-0294	Shutter blade 6/10 for EM/EMC (2439100)
3		82-90-0295	Central shutter blade 12/10 w/holes for EM/EMC (2439600)
4		60-20-1099	Centrifugal system for EM50 (2511101) single speed
5		82-90-0584 Motor cpl with Pulley 1HP 3PH 50Hz EM50 (2523200) 82-90-0366 Motor cpl with Pulley 1.5HP 3PH 50Hz EM50 (2523550) 82-90-0314 Motor cpl with Pulley 1HP 3PH 60Hz EM50 (2523275) 82-90-0315 Motor cpl with Pulley 1.5HP 3PH 60Hz EM50 (2523551)	
6		60-20-1114	Central pulley for EMC50/EM50/EM36
7		82-90-0355	Hub for EM50 (2511600)



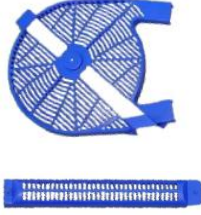
8		60-20-1131	V-belt 13x1880 A74 for EM36
9		82-90-0296	Right shutter bearing EM50 (2524100)
10		82-90-0297	Left shutter bearing EM50 (2524300)
11		82-90-0272	Right shutter bearing with spring for fan EM50 (2524500) 81052640
12		82-90-0273	Left shutter bearing with spring for fan EM50 (2524700) 81052641
13	 2267301	81-03-0220	Protect plastic f/v-belt EM50 cpl metal triangle sheet (set)
14		60-20-1172	Shutter cpl unassembled f/EM50
15		60-20-1098	Light trap LF50
16		60-20-1167	Fin f/light shield EM50 type A
		60-20-1168	Fin f/light shield EM50 type O



2.9 EMC 50

		60-25-1041 Fan EMC50 1,00Hp E15 SST 400-3-50 assembled f/cone max. 60Pa 81-04-8940 Fan EMC50 1,50HP SST with cone 45990m3 3PH 50Hz 60253140 82-90-0223 Fan EMC50 1,50Hp SST 3PH 60Hz with cone (81-04-6830) Assem.	
1		60-25-3048	Impeller for fan EMC50 SST (2515300)
2		82-90-0294	Shutter blade 6/10 for EM/EMC (2439100)
3		82-90-0295	Central shutter blade 12/10 w/holes for EM/EMC (2439600)
4		82-90-0198	Right short shutter blade 6/10 for EC 50 Fan (2441501)
5		82-90-0544	Left short shutter blade 6/10 for EC 50 Fan (2441500)
6		60-25-3099	Centrifugal System for EMC50 (510125C)
7		82-90-0097 Motor cpl with pulley 1.5HP 3 PH 50Hz EC50 (2523501) 82-90-0168 Motor cpl with pulley 1.5HP SST 3PH 60Hz 220V EMC (2522901) 82-90-0274 Motor cpl with Pulley 1HP 3PH 60Hz EMC50 (2522701)	
8		82-90-0349	Central pulley for EM/EMC (2472700) (CLOSED)
9		82-90-0350	Hub for EMC50 (2520300)



10		99-50-1073	V-belt 13x8-1250 DIN 2215 A49 (EMC50) (2245200)
11		82-90-0296 82-90-0187	Right shutter bearing EM50 (2524100) Right shutter bearing EC-50 (2524101)
12		82-90-0297 82-90-0188	Left shutter bearing EM50 (2524300) Left shutter bearing EC-50 (2524301)
13		82-90-0272 82-90-0189	Right shutter bearing with spring for fan EM50 (2524500) 81052640 Right shutter bearing with spring EC-50 (2524501)
14		82-90-0273 82-90-0190	Left shutter bearing with spring for fan EM50 (2524700) 81052641 Left shutter bearing with spring EC-50 (2524701)
15	 2267301	81-03-0220	Protect plastic f/v-belt EM50 cpl metal triangle sheet (set)
16		60-25-1045	Light trap LF50 f/EMC50 cpl

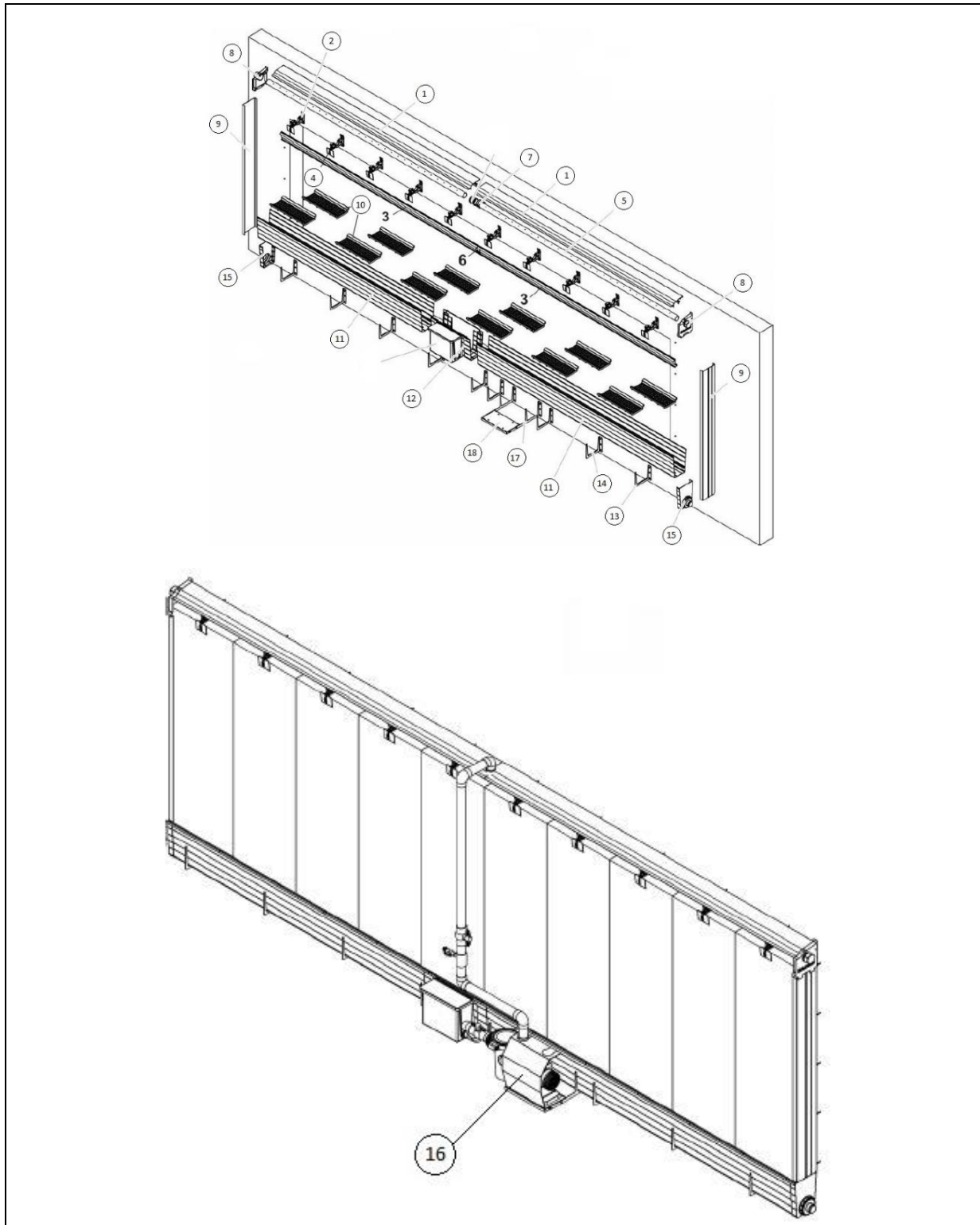

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3 Cooling Systems

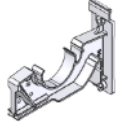
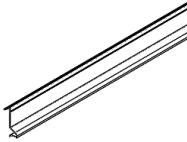
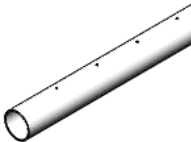
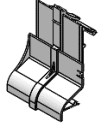
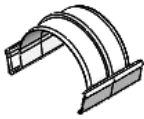
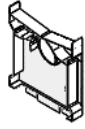
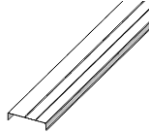
3.1 Pad Cooling System

3.1.1 Pad Cooling Frame

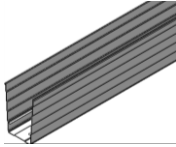
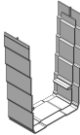
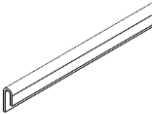
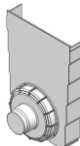
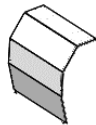
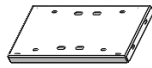


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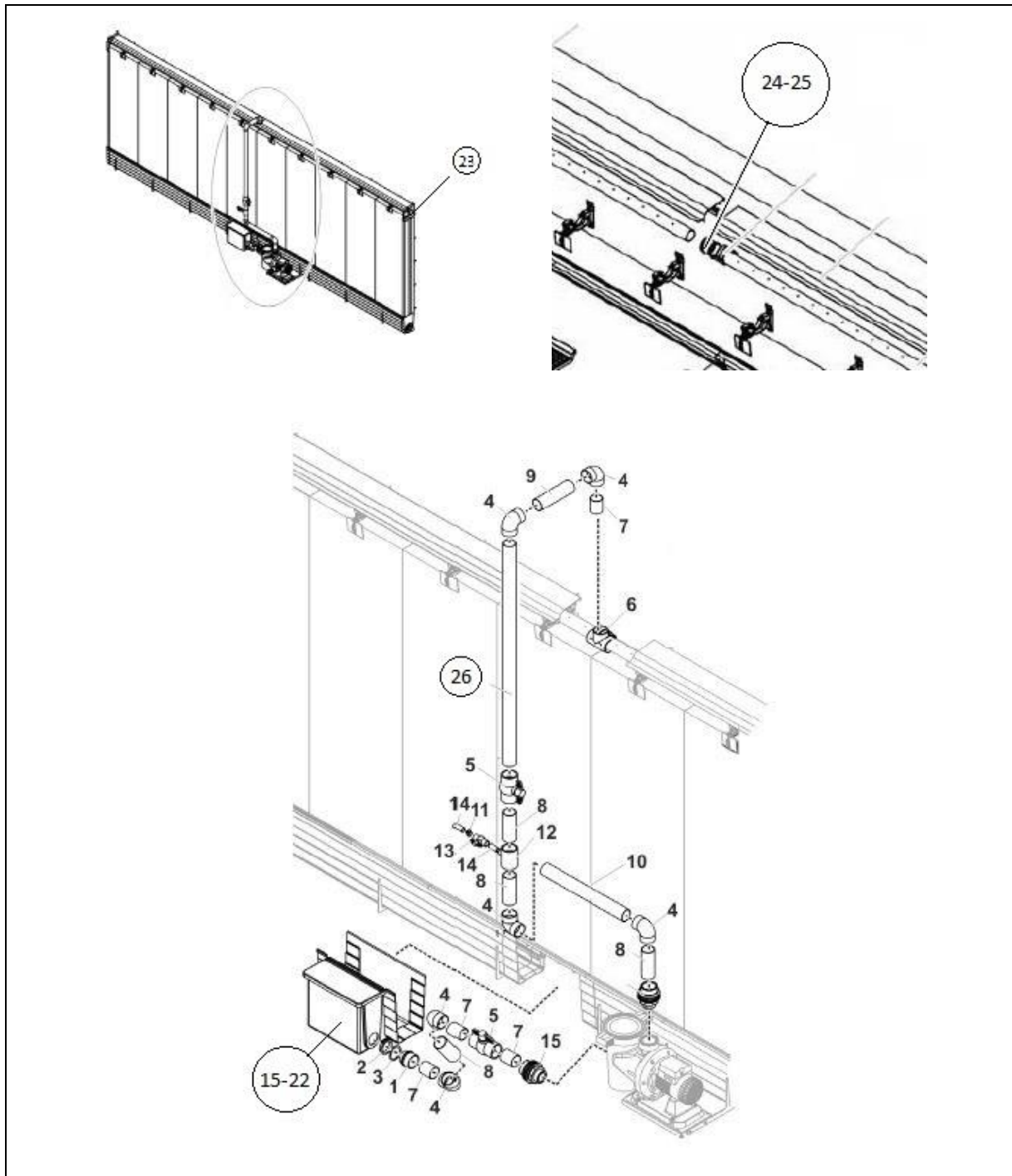
1		83-15-7846	Deflector 3000 PVC f/RM2
2		83-15-7843	Bracket PVC f/distributing pipe 150/6" f/RM2
3		62-00-3705	Guiding profile PVC 3000 f/nozzle pipe RM2
4		83-15-7844	Bracket PVC for pad RM2
5		62-00-3704	Distribution pipe 2"x3000 4/100 PVC f/RM2
6		60-50-0232	Coupler PVC f/guiding rail RM2 & MagixX
7		83-15-8582	Coupler f/deflector PVC f/RM2
8		83-15-9822	End piece for deflector PVC RM2
9		83-15-9823	Side part pad 2500 PVC f/RM2
10		62-00-3508	Cover for driptrough 150/500 PVC Rainmaker



11		62-00-3525	Drip trough 2500 PVC Rainmaker
12		60-05-1112	Coupling for drip trough PVC Rainmaker
13		83-02-9984	Bracket 3.00mm SST for drip trough Rainmaker
14		62-00-3529	Protective strip for bracket Rainmaker
15		62-00-3544	End piece w/flushing cap f/drip trough PVC RM cpl
16		83-16-9976	Cover for pump SST f/Rainmaker
17		83-16-2439	Bracket 3.0mm SST f/pump RM2
18		83-16-2440	Plate 2.5mm SST f/pump RM2
19		83-19-6643	Outlet f/RM2


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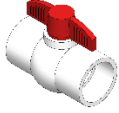
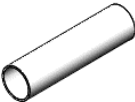
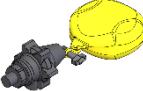
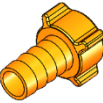
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3.1.2 Water Supply Unit

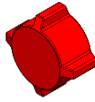
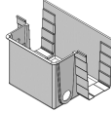
1		83-16-5727	Adaptor nipple 2" x 2"m PVC white f/Rainmaker
2		83-17-8951	Nut 2" fm PVC white f/adaptor nipple 2"x2"m PVC white


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3		83-16-5734	Flat gasket 2" f/adaptor nipple 2" x 2"m PVC white
4		83-17-4850	Elbow 90deg PVC white 2" 2x stick-on-sleeve
5		83-16-4790	Ball valve 2" PVC white 2x stick-on sleeve
6		62-00-3702	T-piece PVC 2" x 2" x 2" white 2 x gluing sleeve
7		99-40-3872	Pipe 2"x 70 PVC white
8		99-40-3873	Pipe 2"x150 PVC white
9		99-40-3878	Pipe 2"x230 PVC white
10		99-40-3879	Pipe 2"x590 PVC white
11		63-00-0022	Hose clamp SST W4 9mm DIN3017 20-32mm
12		83-16-2313	T-piece PVC 2"x1/2"x2" white 2 x gluing sleeve
13		83-16-4791	Ball valve 1/2" PVC white 2x stick-on sleeve
14		99-40-3882	Pipe 1/2"x 50 PVC white
15		60-05-1121	Float valve 3/4" 'Megaflow Topaz' incl gasket kit
16		30-00-3070	Hose nozzle orange 3/4" fm cpl w/swivel nut and gasket



17		83-17-2000	Flat gasket 32x48x2
18		30-61-3802	Cap 3/4" red PVC for breather for rinsing
19		83-17-1998	Flat nut PVC 1/2" f white
20		83-17-2001	Threaded bush w/collar 3/4" PVC white
21		62-00-3543	Supply unit RM2 500mm PVC dia 33.5/61
22		83-09-8409	Cap for supply unit RM 500mm PVC
23		83-16-5738	Screw cap 2" f m PVC f/adaptor nipple 2"x2" m PVC white
24		83-14-4860	Hose clamp SST W4 9mm DIN3017 50-70mm
25		60-50-0137	Socket elastic f/nozzle pipe RM2
26		83-16-2287	Pipe 2"x2500 PVC white


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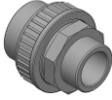
3.1.3 Centrifugal Pump

1		82-90-2237	Centrifug. pump ESP150E 220V 50Hz 1Ph up to 12m padlength
		82-90-2234	Centrifug. pump ESP200E 220V 50Hz 1Ph up to 30m padlength
		82-90-2239	Centrifug. pump ESP150E 400V 50Hz 3Ph up to 12m padlength
		82-90-2240	Centrifug. pump ESP200E 400V 50Hz 3Ph up to 30m padlength
		82-90-3230	Centrifug. pump ESP150E 220V 60Hz 1Ph up to 12m padlength
		82-90-3231	Centrifug. pump ESP200E 220V 60Hz 1Ph up to 30m padlength
		82-90-3281	Centrifug. pump ESP150E 400V 60Hz 3Ph up to 12m padlength
		82-90-3189	Centrifug. Pump ESP200E 400V 60Hz 3Ph up to 30m padlength
2		62-00-3605	Centrifug. pump Euroswim 50M 230V 50Hz 4.2A
		62-00-3606	Centrifug. pump Euroswim 50M 115/230 60Hz 1Ph 8.8/4.6A Centrifug.
		62-00-3610	pump Euroswim 100M 230V 50Hz 6.3A
		62-00-3611	Centrifug pump Euroswim 100M 115/230V 60Hz 1Ph 12.2/6.1A
		62-00-3612	Centrifug. Pump Euroswin 100T 400V 50Hz 3Ph IE3
		62-00-3614	Centrifugal pump Euroswim 100T 230/400 60Hz 3Ph 5.4/3.1A

3.1.4 For ESI pump use

1		99-40-3730	Pipe 50x2.40-5000 PVC NP10
2		83-30-5932	Reducing Socket 50/40 bored inner 50mm PVC

3.1.5 For Euroswim pump use only

1		83-16-2326	Screw union 2"fm x 2"m NP16
---	---	------------	-----------------------------

3.1.6 Pad 7060 (45/15) deg (topair)

1		87-01-0210	Pad7060 (45/15deg) 150 deep-600 width-1000 high-TA
2		87-01-0982	Pad7060 (45/15deg) 150deep-600width-1200high -TA
3		87-01-0211	Pad7060 (45/15deg) 150 deep-600 width-1500 high-TA
4		87-01-0212	Pad7060 (45/15deg) 150 deep-600 width-1800 high-TA
5		87-01-0213	Pad7060 (45/15deg) 150 deep-600 width-2000 high-TA


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3.1.7 Pad 7060 (45/15) deg (hutek)

1		62-00-3134	Pad H 150deep-600long-1000high pad cooling 0760-45/15
2		62-00-3131	Pad H 150deep-600long-1500high pad cooling 0760-45/15
3		62-00-3132	Pad H 150deep-600long-1800high pad cooling 0760-45/15
4		62-00-3133	Pad H 150deep-600long-2000high pad cooling 0760-45/15

3.1.8 Pad 7060 (45/15) deg (munters)

1		87-01-0983	Pad 7060 45/15deg 150deep 600width 1000high Ecodek
2		87-01-0981	Pad 7060 45/15deg 150deep 600width 1200high Ecodek
3		87-01-0984	Pad 7060 45/15deg 150deep 600width 1500high Ecodek
4		87-01-0985	Pad 7060 45/15deg 150deep 600width 1800high Ecodek
5		87-01-0986	Pad 7060 45/15deg 150deep 600width 2000high Ecodek

3.1.9 Pad PP 150-3

1		60-50-0139	Pad PP 150-3 600x500mm
2		60-50-0138	Pad PP 150-3 600x750mm
3		60-50-0159	Pad PP 150-3 600x1000mm
4		60-50-0066	Pad PP 150-3 600x1350mm
5		60-50-0090	Pad PP 150-3 600x1500mm
6		60-50-0091	Pad PP 150-3 600x1800mm
7		60-50-0217	Pad PP 150-3 600x1970mm
8		60-50-0092	Pad PP 150-3 600x2000mm
9		60-50-0273	Pad PP 150-3 600x2200mm
10		60-50-0312	Pad PP 150-3 600x2500mm

3.1.10 Install Accessories

1		82-93-8428	VT-210 High performance Sealant-GREY
2		30-00-3051	Hose 3/4" yellow
3		99-50-3759	Cleaner Tangit 1L


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4		99-50-3757	Glue Tangit 0.250kg tin
5		99-98-3799	Brush no 2
6		99-50-3760	Glue Tangit 0.125kg tube
7		30-00-3846	Sealing tape 0.1mm/12m for thread HDF



3.2 Fogging System

3.2.1 Filter Unit

		61-00-4092 Filter Unit with 4 filters 20/10/5/1 micron	
1		61-00-4101	Filter insert 1 micron
2		61-00-4102	Filter insert 5 micron
3		61-00-4103	Filter insert 10 micron
4		61-00-4104	Filter insert 25 micron
5		61-00-4120	Filtertop (from 07/2002)
6		61-00-4121	Inspection glass f/filter unit (from 07/2002)
7		61-00-4122	O-ring for filter unit (from 07/2002)
8		30-62-3540 30-62-3070	Medicator 10-2500L/h 0.2-2.0% 0.30-6.00 bar L4237-1 D25 RE2 Medicator 10-2500L/h 0,2-2.0% w/connection material ¾"

3.2.2 High Pressure Pipes and Nozzles

1		61-00-4060	Nozzle Z cpl 0.2mm brass
2		61-00-4065	Nozzle Z cpl. 0.2mm SST
3		61-00-4053	Plug SST for nozzle line
4		81-37-9398	O-ring for nozzle SST Ø 0.2
5		61-00-3089	O-ring for Nozzle (For brass nozzle)

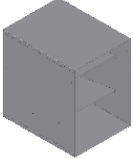


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4 Heating Systems

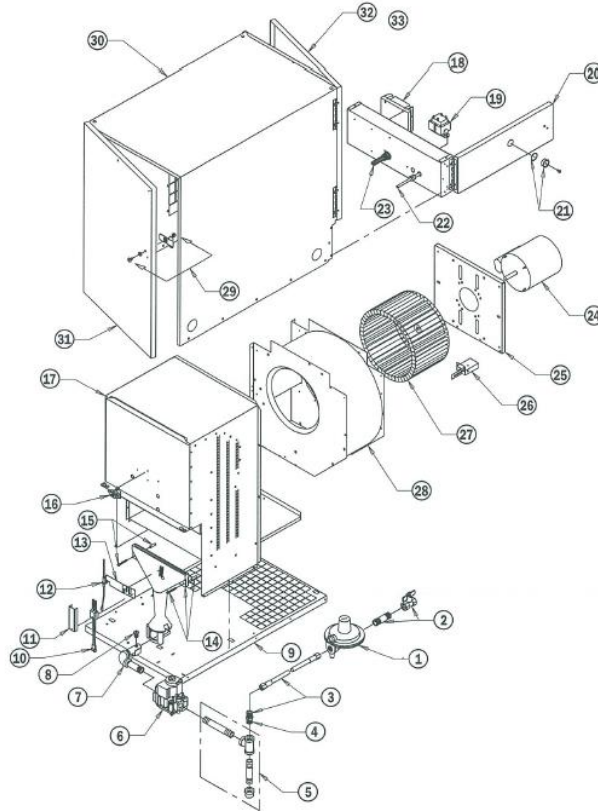
1		40-20-3200 40-20-3201 40-20-3211 40-20-3221	Box-Heater NG BD 250000 BTU/73kW 230V 50Hz 1Ph Box-Heater LPG BD 250000 BTU/73kW 230V 50Hz 1Ph Box-Heater LPG BD 250000 BTU/73kW 230V 60Hz 1Ph Box-Heater AUSTRALIA LPG Guardian AW230V 50Hz 1Ph
2		82-90-3095	LBW Guardian AD250 Box Heater excl. Accessories –For Australia Only (spark Ignition)
3		Upon Request	AD250 Heater (AD250BSPE120123)-Asia (spark ignition)
4		82-90-3318	LBW mounting outdoor kit f/AD250 & AW250
5		82-90-3098	Chains for Guardian 250 (400-08748)
6		40-20-3209	Heater air duct for Box-Heater INT'L BD 250000 BTU / 73kW
7		82-90-3097	Air Diverter (Part of LBW accessories) Diverter for Guardian 250 (550-20048)



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1		82-90-0784 82-90-1207 82-90-3100	HH REG Gas LP preset 13.25 WC"1045-0100 LBW Regulator LP/NG gas for heater (550-06553) Regulator for Guardian 250-AGA (550-06553)
2		82-90-1187	LBW Valve, Ball & Nipple(500-03399)
3		82-90-3096	Hose w/adapter for Guardian 250-AGA (550-20714)
4		81-33-4759	Adapter hose ½" NPT x ½" NPS (500-25873)
5		81-36-5903	Kit Sediment Trap 500-00815
6		82-90-1196 82-90-1197	LBW valve, HSI, LP,24V,50-60Hz U.S. Service parts, No Press. Taps (550-22076) LBW Valve, HSI, LP,24V,50-60Hz, CE Self/Australia ,W/Press. Taps (550-22207)
7			Manifold


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8		82-90-1186 82-90-1213	LBW Orifice, burner, LP-Gas,0.180dia (570053) LBW orifice natural gas 570054
9			Base
10		82-90-1202	LBW Igniter, 240V Siliconcarbide ceramic Base, HSI(Europe) (550-20748)
11			Shield
12		82-90-1195	LBW Sensor Flame ,W/Hardware (520139)
13			Bracket
14			Burner
15			Mounting
16		82-90-1191	LBW switch, High Limit, 350DEG (505566)
17			Chamber
18		82-90-1442	Controller (509298) MODULE Blk 230V/50Hz GVInducr (3591-0100)
19		82-90-1194	LBW Transformer, 240/24V 40VA (571900)
20			Control box
21			Window
22			Cord
23		82-90-1204	LBW Harness, wiring-523700
24		82-90-1198 82-90-1199	LBW Motor1/4HP,240V BallBearing (571902) for 40-20-3201 (50Hz) LBW Motor,1/2HP,220/60,B-Bearing (572334) for 40-20-3211
25		82-90-1203	LBW mount, Motor W/Hardware-570251



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26		82-90-1190	LBW switch, Lever, W/6 Nuts& 2bolts (500-02680)
27		82-90-1201	LBW Wheel, Fan, 10.75 x"6W/Hardware (570481)"
28			Housing
29			Latch
30		81-37-9984	Case Assy, AW250BHPE120125/147 Service part (572330)
31			Door right
32			Door Left
33		40-13-3802	Gas tube 8mm for propane (LPG) Propane ISO 3821 -20 Bar Hose (inner diameter 8mm, outer diameter 15mm)
34		82-90-3099	Thermostat for Guardian 250-AGA (500-20176)

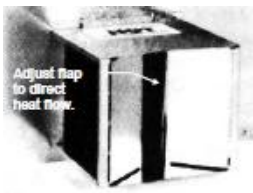


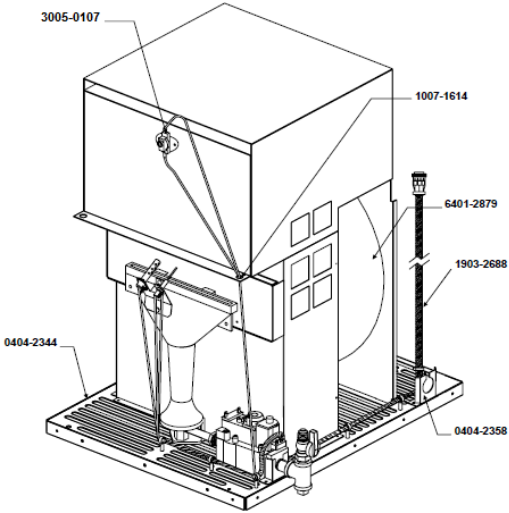
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4.1 Box Heater HH SS-225-XL 86-01-2136 (6601-9965-HH) *

 SUPER-SAVER XL™ HEATER Agricultural Building Heater Model SS-225-XL 65.9 kW 225,000 BTUH  ♦ Hot Surface Ignition ♦ Wash Down Design 			
1	 6401-2877	86-01-0645	Flare Duct (SS-225XL-G TDUCT COMPLETE)

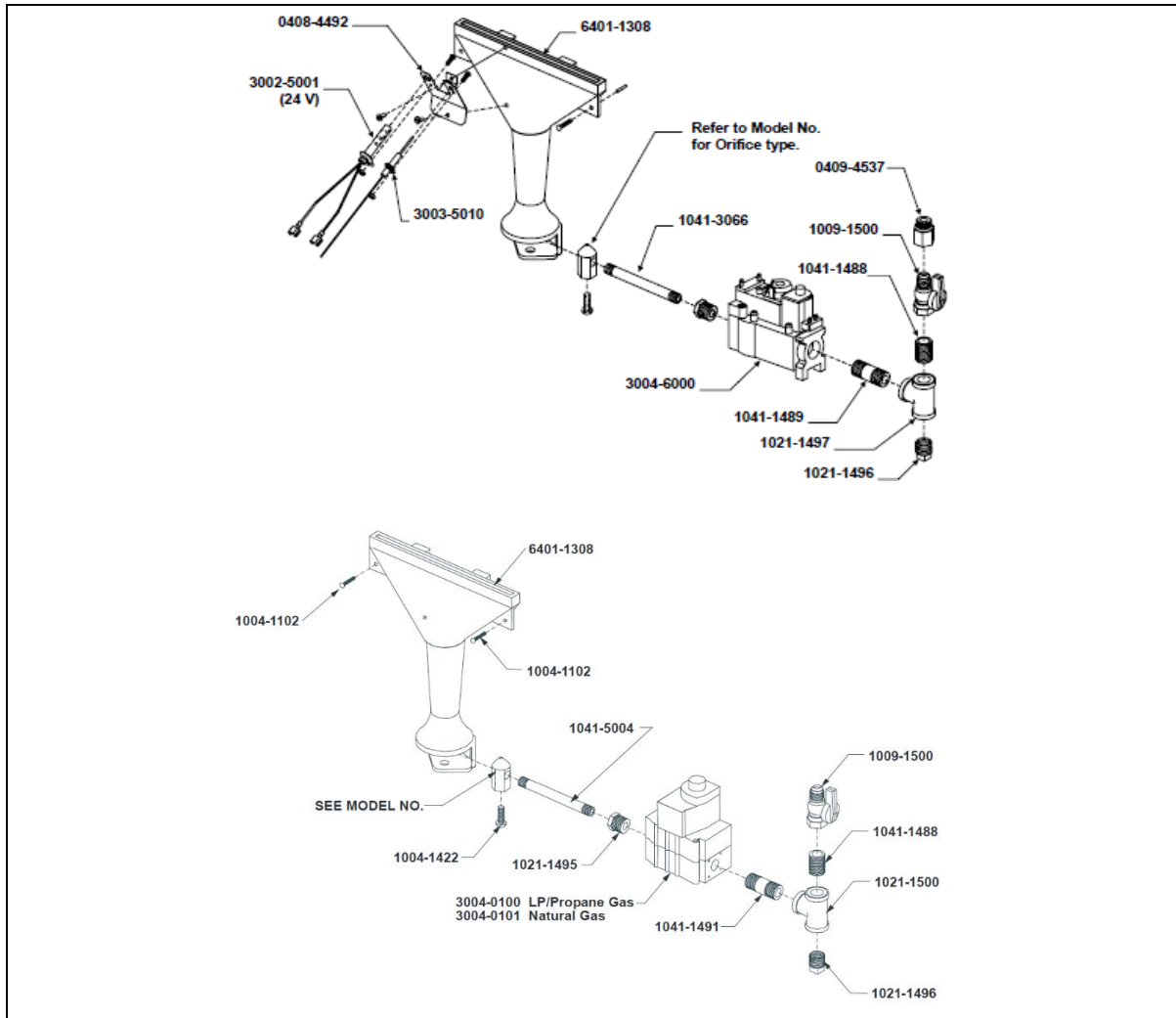
			
1	3005-0107	40-40-4107	Thermodiscs, 320F (160C) High Limit f/225XL heaters
2	1007-1614	Upon Request	¼ Strain Relief
3	6401-2879	Upon Request	Blower Housing
4	1903-2688	Upon Request	Lg Heater Wiring Harness 230V, 50/60 Hz
5	0404-2358	Upon Request	Cord Connector Support
6	0404-2344	Upon Request	Panel Cabinet Bottom



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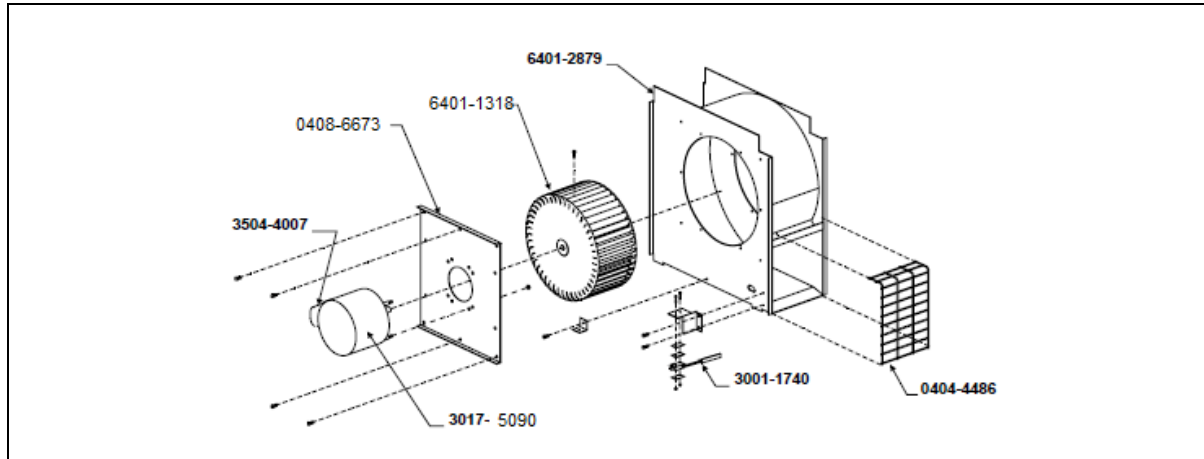


1	0408-4492	Upon Request	Mounting Bracket
2	3002-5001	86-00-3727 40-20-4008 86-00-9736 82-91-0019	24V Igniter Used For 230v, 50/60 Hz Ignitier,24V AC,MINI, 50/60Hz, F /240V Pura Fire Heater RP-H/H Heater Ignitor 24V
3	3003-5010	Upon Request	1.25 Flame Sense Probe
4	6401-1308	40-40-1350	Burner
5	1041-3066	40-40-3066	¼ x 4-½ Pipe Nipple
6	3004-0100 3004-0100 6401-5062-HH 3004-6000	40-40-1100 82-90-0745 Upon Request Upon Request	Gas Valve LPG VR8205M2906 Replaces 40-40-4099 Gas Valve Propane HW ELELP VR8205M2948 3004-0100 Gas Valve LPG VR8615A
7	0409-4537	Upon Request	CE Heater BSPP Adapter
8	1009-1500	40-40-4505	½ x ½ Brass Ball Valve
9	1041-1488	40-40-3069	½ Close Pipe Nipple
10	1021-1497	Upon Request	
11	1021-1496	40-40-3068	½ Pipe Plug

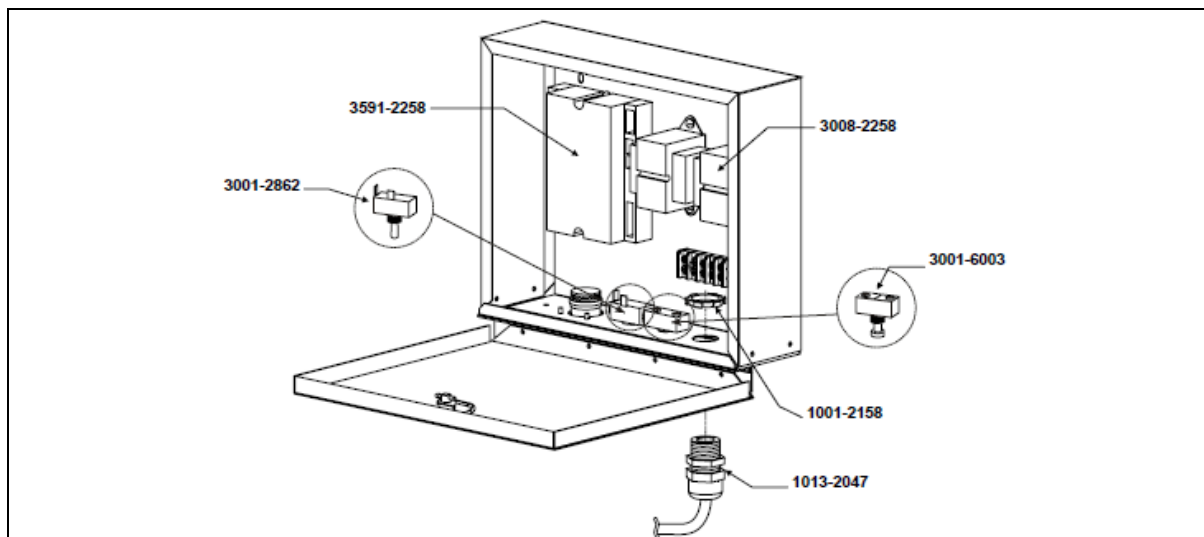

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12	1041-1489	Upon Request	
13	0409-3001	Upon Request	Orifice, Butane/Propane
14	0409-3002	Upon Request	Orifice, Propane
15	0409-3006	Upon Request	Orifice, Natural Gas



1	6401-2879	Upon Request	Blower Housing
2	0404-4486	Upon Request	Outlet Finger Guard
3	3001-1740	82-90-1441 40-40-4740	SWTCH Micro with sail levrv3L SWITCH, SNAP LEVER, W/SAIL SAME AS 40-40-4741
4	6401-1318	40-40-4318	BLOWER_WHEEL SS-225
5	0408-6673P	86-00-8424	FAB AS MOTOR MOUNT PLATE 225XL HH
6	3504-4007 3504-2000	86-00-9311 86-00-9621	Capacitor for 75000BTUheater CAP MTR EMER 5.0UF W/3017-5090 for 225000BTUheater
7	3017-5090	40-40-1076	MTR,1100RPM,1/3HP,240V 50HZ, BISON



1	3001-2862	40-40-4862	Single-Pole Throw (On/Off) Switch
2	3591-2258	86-00-9312	Control Module
3	3008-2258	86-00-9623	Transformer 240V



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4	3001-6003	Upon Request	Push Button Switch
5	1001-2158	Upon Request	
6	1013-2047	Upon Request	

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5 Lighting Systems

5.1 CCFL Lamp

			99-30-4030 Light w/LED 6.5W E27 230V 2700K dimmable suspended mounting 
1		91-00-2959	LED 6.5W ML A60 E27 WW 230V 2700K dimmable
2		99-30-3728	Screw cap flamp socket E27
3		99-30-3712	Lamp socket E27 f/suspended assembly
4		83-17-2456	Bracket f/cable height adjustment housing E27
5		99-50-0325	S-Hook 1 1/2" no 50/5x45

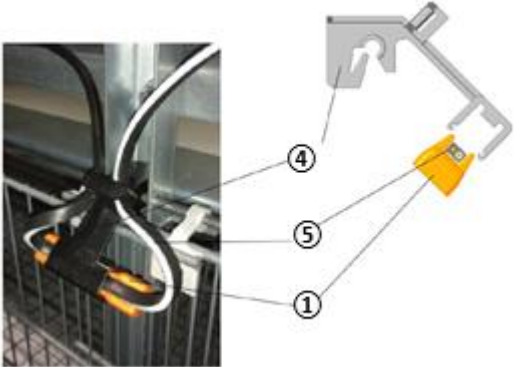
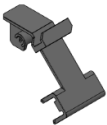


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6		99-30-3403	Cable H07 RN-F/3 G 1.5mm ² black
7		99-50-1025	Junction box mini 25-L
8		91-00-4222	Dimmer BD LED-ERS 110

5.2 FlexLED ECO

1		99-30-4616	Lamp FlexLED ECO 48 VDC 2.0 W IP69K warm white 60x16x16 mm 
2		99-30-4569	Dimmer stepless FlexLED 2 outputs with max. 275watts
3		99-30-4576	Mounting set f/FlexLED
4		83-17-7824	Bracket POM f/FlexLED ECO UV-S

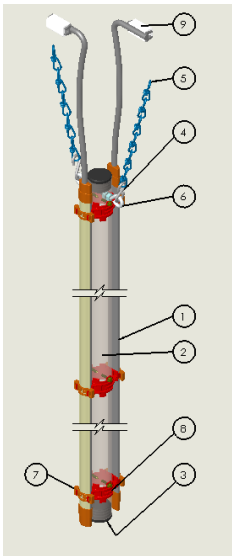


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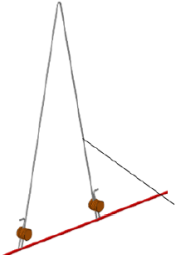
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5		99-30-4560	Ribbon cable 2x1.5mm² 200m f/FlexLED
6		99-50-3836	Strap 100mm x 2.5mm black (UV-resistant)

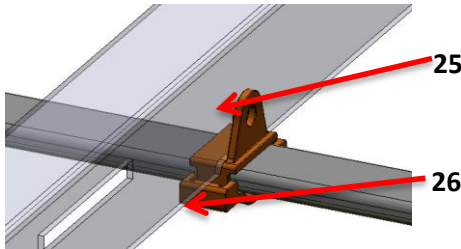
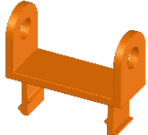
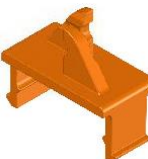
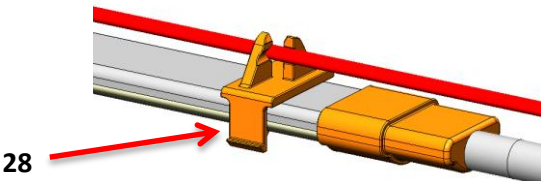
5.3 FlexLED

1		99-30-4520 99-30-4521 99-30-4522 99-30-4523 99-30-4550 99-30-4551 99-30-4552 99-30-4553	Light tube FlexLED 1130 micro 48VDC 5.5W IP69K WW cab 80 Light tube FlexLED 1380 mini 48VDC 5.5W IP69K WW cab 80 Light tube FlexLED 1800 midi 48VDC 5.5W IP69K WW cab 80 Light tube FlexLED 2336 maxi 48VDC 5.5W IP69K WW cab 80 Light tube FlexLED 1130 micro 48VDC 5.5W IP69K WW cab 1730 Light tube FlexLED 1380 mini 48VDC 5.5W IP69K WW cab 1730 Light tube FlexLED 1800 midi 48VDC 5.5W IP69K WW cab 1730 Light tube FlexLED 2336 maxi 48VDC 5.5W IP69K WW cab 1730
2		83-08-9736	Tube 33.5x0.80-5800 reduced (coupled 5750)
3		83-04-5702	Plug LD-PE for tube 33.5x0.8-1.5
4		99-50-0011	S-hook 1" 4x35
5		99-50-0012	Suspension chain K 27 DIN 5686 galv
6		99-10-1544	Lifting eye bolt 48/M 6x 20 galv
7		83-13-4930	Bracket POM for FlexLED
8		83-14-8403	Adapter Flex LED for pipe 33.5
9		99-30-4557	Cap f/press connector f/FlexLED



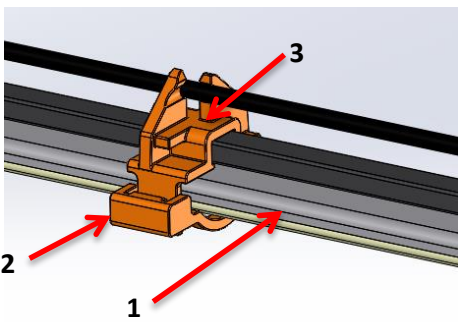
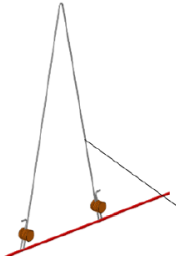
10		99-30-4558	Connector End Cap f/ribbon cable f/flexLED
11		99-30-4563	Rubber cap f/cable round 2x1 (Carton = 10 pieces) f/flexLED
12		99-30-4560	Ribbon cable 2x1.5mm ² 200m f/flexLED
13		99-30-4562	Ribbon cable 2x1.5mm ² 100m f/flexLED
14		99-30-4559	Adapter cable 0.5m f/flexLED
15		99-30-4561	Mounting pliers FlexLED
16		99-30-4554	Housing f/2 power supplies f/flexLED
17		99-30-4555	Dimmer PWM 2 channel f/flexLED
18		99-30-4568	Dimmer Stepless FlexLED 2 outputs with max. 138 watts
19		99-30-4569	Dimmer Stepless FlexLED 2 outputs with max. 275 watts
20		99-30-4556	Power supply 320W 100-240VAC 50/60Hz f/FlexLED 48VDC
21		99-30-4671	Suspension f/rope 5mm flexLED btb



22		99-50-1019	Suspension rope 3mm PES black (100m)
23		30-61-3485	Plug PE for rope wo/nut
24		30-61-3486	Nut PE f/rope
25		83-13-4931	Adapter POM for FlexLED longitudinal lighting
			
26		83-13-4930	Bracket POM for FlexLED
27		83-13-4932	Adapter POM for FlexLED cross lighting EV2240
28		83-13-4934	Adapter POM for FlexLED longitudinal lighting at rope
			
29		83-13-4944	Adapter POM for FlexLED aisle lighting

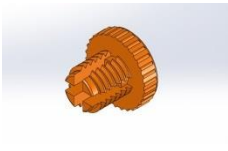


5.4 FlexLED HO 450

1		99-30-4644	Light tube FlexLED2 HO 450mm 48VDC 4.5W IP69K WW cable 80 
2		83-13-4930	Bracket POM for FlexLED
3		83-14-6136	Adapter POM for FlexLED at wire with cable guide
4		99-30-4557	Cap f/press connector f/FlexLED 
5		99-30-4569	Dimmer stepless FlexLED 2 outputs with max. 275watts
6		99-30-4671	Suspension f/rope 5mm flexLED btb
7		99-50-1019	Suspension rope 3mm PES black (100m)


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8		30-61-3485	Plug PE for rope wo/nut
9		30-61-3486	Nut PE f/rope
10		99-30-4576	Mounting set f/FlexLED
11		99-30-4563	Rubber cap f/cable round 2x1 (Carton = 10 pieces) f/flexLED
12		99-30-4560	Ribbon cable 2x1.5mm² 200m f/FlexLED

5.5 Moisture Proof Lamp

1		99-30-4401	Moisture-proof lamp 36W BD-ED-OS mounting at ceiling
2		99-30-4434	Fluorescent tube 36W/830 warm 3350lm BD



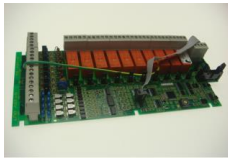
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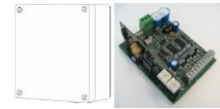
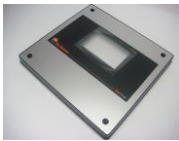
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6 Climate and Production Control

6.1 Viper Touch Climate Computer

			61-00-0050 Main unit ViperTouch 710 7" without sensors 61-00-0052 Main unit ViperTouch 1520 7" without sensors 61-00-0054 Main unit ViperTouch 2330 7" without sensors
1		61-00-0083	Display ViperTouch w/out CPU
		60-43-6635	Colour display touch 7 inch. Spare part for all Viper Touch models. (closed) CPU module IMX w/display 7" and software Viper Touch
2		61-00-0092	Module I/O 10RL 8AI 8AO 3-A
		60-43-0520	MC135-235Pro/ViperTouch/CT2Touch (closed) 136983 I/O module type 3 incl plug-in terminals IO Module AIOR8810 –type 3 for AMACS/Viper/ 307Pro/
3		61-00-0085	Cover for ViperTouch incl CPU + climate and standard software production (closed)
4		61-00-0086	Cover for ViperTouch with CPU and climate and full broiler production (closed)
5		61-00-0080	Viper Conversion kit for Viper to ViperTouch 7"
6		61-00-0081	CPU-Module W/Display for ViperTouch & standard software (closed replace with 61-00-0085)
7		60-43-6635	CPU module IMX w/display 7" and software ViperTouch/307Pro (Replace 61-00-0081, 61-00-0085, 61-00-0086)

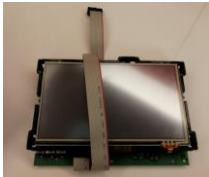


8		61-00-0096	Bottom board Main 12RL f/ViperTouch/307 ClassicCan/CanOpen
9		60-43-5750	Power supply 24 V 2.1A ViperTouch/135/235/307pro/CL175
10		61-00-0021 61-00-0022	Silo weighing module 2 IN (<1 m) Silo weighing module 2 IN (<200 m)
11		61-00-0087	Front cover with film without CPU for ViperTouch
12		61-00-0088	Cover for additional unit ViperTouch Full Broiler
13		81-37-8710	Lower part for additional unit ViperTouch Full Broiler
14		61-00-0084	Control unit MC68 speed controller 230V 2x6.8A (max. 1m)
15		60-43-4702	Speed controller 6.8A f/ViperTouch/135/235/3/07pro


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6.2 Viper Touch Climate Computer (Vento)

			60-43-5900 Vento2 S 12 relays with 2x DoL12 60-43-5902 Vento2 L 22 relays with 2x DoL12
1		60-43-5904	CPU module w/Display Vento2 (LCD Display is for IMX series. Order this if LCD is damage.)
2		61-00-0096	Bottom board Main 12RL f/ViperTouch/307 ClassicCan/CanOpen
3		60-43-5750	Power supply 24V 2.1A ViperTouch/135/235/307pro/CL175
4		82-90-2292	Cable gland M20x1.5
5		81-34-9151	Sheathed cable YSLY-JZ 12Gx1.5mm ²


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6.3 UPS

1		60-43-4793	Power supply UPS Mini SA 20VDC 1.0A Viper Touch with overvoltage protection.
2		60-43-4792	Power supply UPS 20.5VDC Viper Touch max 5 min 1.3A (to be use with 378M)
3		82-90-3558	UPS 650VA 230 50/60Hz
4		60-40-2817	Battery module 18V 7Ah for MC278-8A/378-8A/378T-8A/378CT-8A
5		60-40-2812	Battery module 4Ah f/MC278-4A/378-4,2A/378T-4,2A/378CT-4,2A

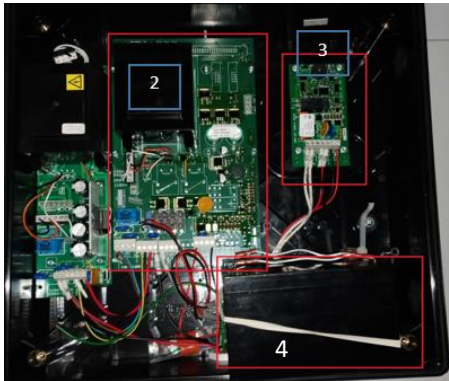
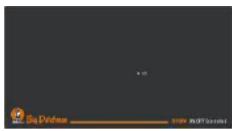
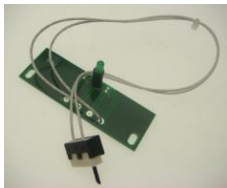
6.4 TC-8SDA

			60-70-3063 TC5-8SDA incl sensor TH (60-70-3052) 60-70-3048 Climate-control 8-steps TC5-8SDA
1		81-04-7429	Top-board for climate-control TC5-8SDA (060-10239)
2		82-90-3489	Thermostat Controller 220-250V AC, 9KW w/NTC10K--10m connect


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6.5 Emergency Opening

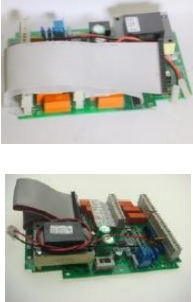
1		60-43-4850 Emergency opening 378M 24V 4.2A TC5-8SDA 60-43-4851 Emergency opening 378M 24V 8.0A	
2		60-40-2833	Bottom plate MC278/378 4A/8A
3		60-43-4792	Power supply UPS 20.5V DC Viper MC135/235 max 5min 1.3A
4		60-40-2812	Battery module 4Ah f/MC278-4A/378-4,2A/378T-4,2A/378CT-4,2A
5		60-43-2858	Cover f/emergency opening 378M
6		81-40-9354	LED diode board 78/278


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7 Alarm

7.1 AC 3-T Alarm System

		60-43-4857	Alarm unit AC 3-T AS
1		60-43-4803	Battery for AC 3-T 12V 4.5Ah
2		60-43-4858	Bottom board AC 3-T AS/ AC 3-T A/ AC 3-T
3		61-00-0402	Housing universal 250x160x140 design type 1 SK
4		60-43-4861	Front board with cover AC 3-T AS / AC 3-T A / AC 3-T
5		60-43-4814	Key switch f/ alarm unit AC208/AC 3/T
6		91-00-1386	Fuse 5x20mmm 2A 250V



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7.2 Viper Touch Climate Computer (AC Touch)

		60-43-4877 Alarm system AC Touch Basic 60-43-4886 Alarm system AC Touch analogue tel. line 60-43-4887 Alarm system AC Touch GSM 60-43-4888 Alarm system AC Touch analogue tel. line + GSM	
1		60-43-4763 60-43-4772	CPU module w/display and software f/alarm unit AC Touch CPU module IMX w/display and software AC Touch
2		60-43-4764	Basis module f/alarm unit AC Touch
3		60-43-4765	Module I/O f/alarm unit AC Touch
4		60-43-4766	Microphone f/alarm unit AC Touch
5		60-43-4760	Fingerprint sensor f/alarm unit AC Touch
6		60-43-4761	USB cable 70cm f/alarm unit AC Touch
7		60-43-4762	Resistances f/cable control f/alarm unit AC Touch
8		60-43-4767	Antenna GSM 10m external f/alarm unit AC Touch / AC 208



9		60-43-4768	Landline module f/alarm unit AC Touch
10		60-43-4769	Module GSM f/alarm unit AC Touch

8 Sensors

1		60-44-0252	Sensor for humidity of air DOL-114 without plug
2		60-44-0258	Sensor f/air humidity and temperature DOL-114w/M12 plug conn
3		60-40-0200	Temperature probe DOL-12
4		60-70-3056	Sensor f/humidity of air HS-1
5		60-70-3052	Temperature sensor TH (TC5)
6		60-44-0231	Sensor CO ₂ DOL 19 0-10,000 ppm 0-10V IP54 w/plug M12, cable 2m
7		60-40-1991	Negative pressure indicator -10-600 Pa


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8		60-53-0400	Oil red for negative pressure indicator -10-600Pa
9		60-44-0236	Negative pressure sensor DOL 18 0-10V 0-100Pa -50/+50Pa cpl wo/hose set (BOM)
		60-44-0233	Negative press sens DOL 18 wo/hose set 0-10V 0-100PA -50/+50
10		60-44-0235	Hose connection set (2 pcs) for negative pres. sensor DOL 18
11		61-00-0032	Hose set w/T-piece for negative pressure sensor
12		91-00-2826	Phase-control unit F1021in-corporable 3PH 400V 50/60Hz
13		60-44-0247	DOL53 NH3 ammonia 0-100ppm 0-10V
14		60-44-0231	Sensor CO ² DOL19 0-10000ppm 0-10V IP54 w/plug M12,cable 2m
15		91-00-3914	Light sensor DOL 16 100/1000 LUX 2x0-10V with M12-plug
		91-00-3909	Light sensor DOL 16 100/1000 LUX 2x0-10V without plug
16		60-44-0245	Weather protection f/climate sensor outside (140245 Radiation shield for climate sensors)



17		60-40-5107	DOL26 90-265V DOL 26 20-280v Ac/DC cap. 2-wire sens./delay adjustable
18		60-40-0626	DOL 44RG 90-265Vac Threaded, sens. & start delay adjust.

End of Document



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