



Winch, 24 VDC – 750 W



Model 32.200

Manual

KC Denmark


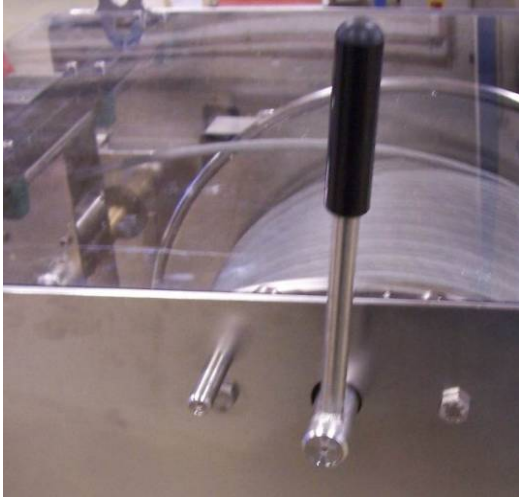
Research Equipment



Limnology • Oceanography • Hydrobiology

	<p align="center">Manual for winch</p>	<p align="center">Model no. 32.200</p>
	<p align="center">  Caution This winch is very dangerous in unskilled hands and serious precautions must be taken to avoid accidents. The safety cover must always be in the secured position to avoid any contact with the drum and the wire during operation. KC-Denmark is not, and cannot be held, responsible for any damage(s) made to equipment or injury to operators who ignore safety precautions or because of misuse or wrong operation. </p>	
	<p>Preparation</p>	
<p>1</p>	<p>The winch must be secured on a plain and stable surface before use.</p> <p>Fasten with 4 bolts, minimum M14 or M16. To avoid any damage or injury, you must ensure free space for the wire in all positions.</p>	
	<p>Power</p>	
<p>2</p>	<p>An authorized technician must perform all power installation.</p> <p>Supply: 24 VDC</p> <p>Connections: Positive (+): Red Negative (-): Black</p>	

3	A 5 watts heat element has been mounted inside the electrical control box to prevent condensate water. The heat element should <u>always be on.</u>	
---	---	--




Operation		
------------------	--	--

4	 <p>Caution <u>Always remember</u> to loose the break before use. Otherwise you might cause serious damage to the winch.</p> <p>The brake is for emergency only use or to secure a heavy load (the gear is <u>NOT</u> self locking).</p>	
---	--	--

5	<p>The remote handle controls the wire direction, up or down and has also an emergency switch.</p>  <p>Caution When changing direction of the wire, be sure the drum has stopped, before you activate the opposite direction.</p> <p>By emergency or in need of a fast stop press SAFETY SWITCH and the winch will stop immediately. A main switch and an emergency switch are also located at the control box on the winch.</p>	
---	--	--

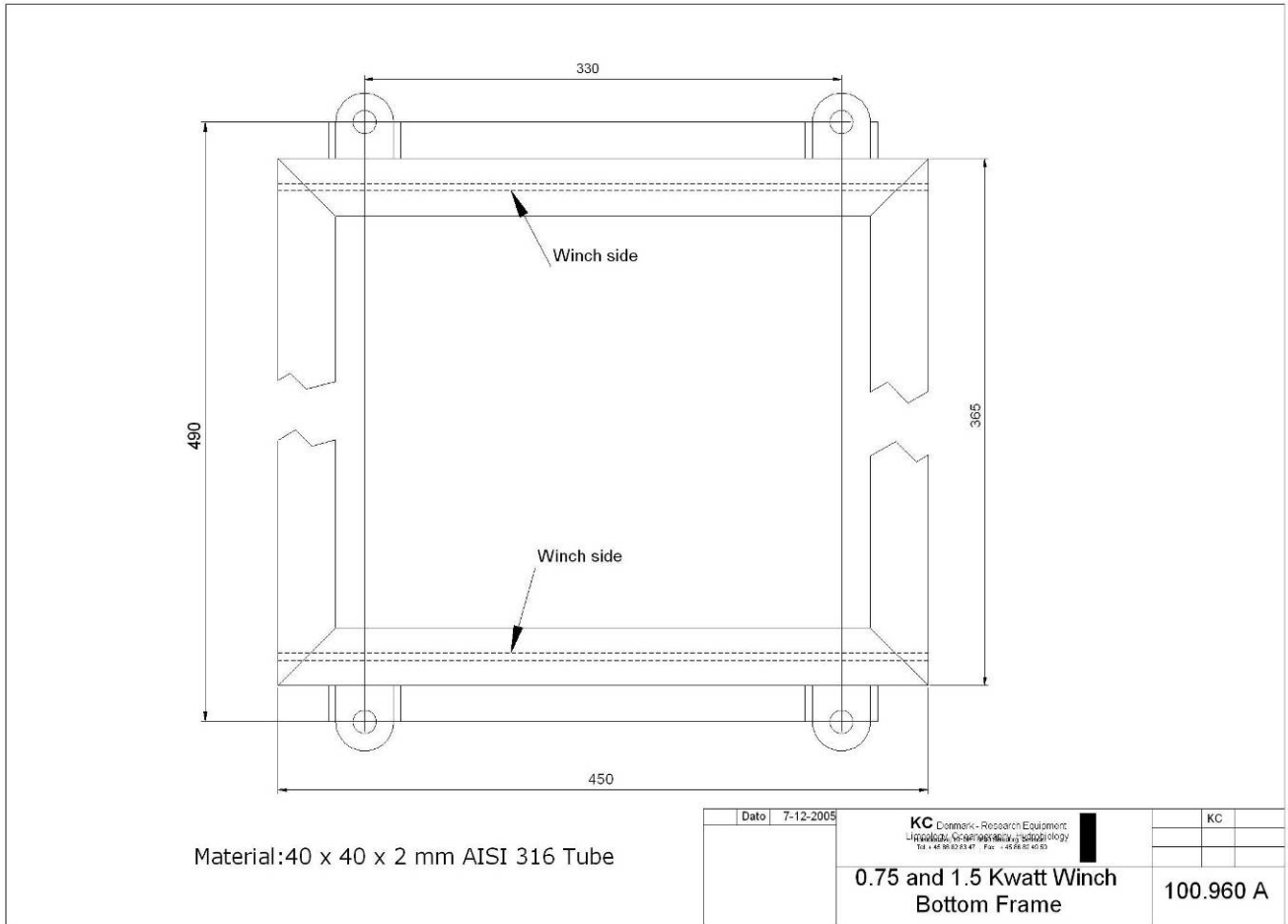
Greasing		
-----------------	--	--

	The winch has one vertical ball bearing, located at the side; make sure it is being greased every 6 months, with regular ball bearing grease.	
--	---	--

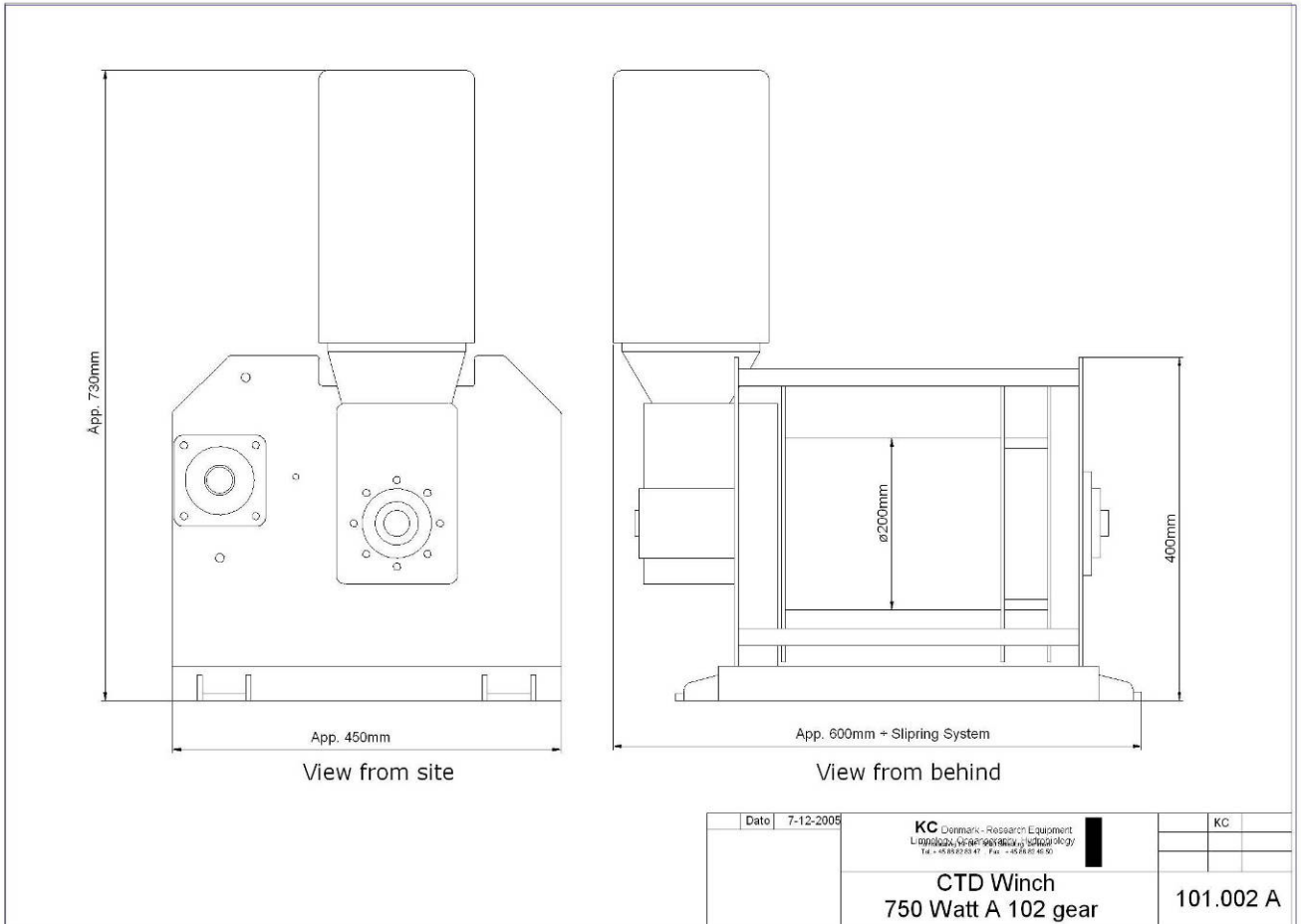
	<p>The spindle of the wire guide has to be greased before use of the winch.</p>	
Adjusting the cable laying		
	<p>Ensure the winch has been stopped.</p> <p>Pull out the handle and turn it to left or right, according to the direction you want the cable laying to proceed.</p> <div data-bbox="220 667 338 792" style="text-align: center;">  <p>Caution</p> </div> <p>Check out the pawl is positioned correctly on the spindle. An incorrect setting might damage the wire guide system.</p>	
Meter counter		
	<p>Power supply: The counter needs an external power supply of 10 – 24 Volt AC or DC. Power consumption: Max. 200 mA. A 2-conductor cable, length 5 m, is for the power supply.</p> <p>Connection: Brown and blue wire: 10 – 24 Volt AC or DC. No need for polarity.</p> <p>No needs for connecting to ground.</p> <p>Before inserting the cable on the meter wheel check out the counting direction of the wheel by manually turning of wheel.</p> <p>Operation: Push the green bottom to start the counter and the night visibility.</p> <p>When you lower the equipment and it hits the sea level, you can reset the counter to zero by pushing the red bottom.</p>	

	The counter has an internal heating element (3 W) to prevent condensate water. (Always connected, regardless of the green bottoms position).	

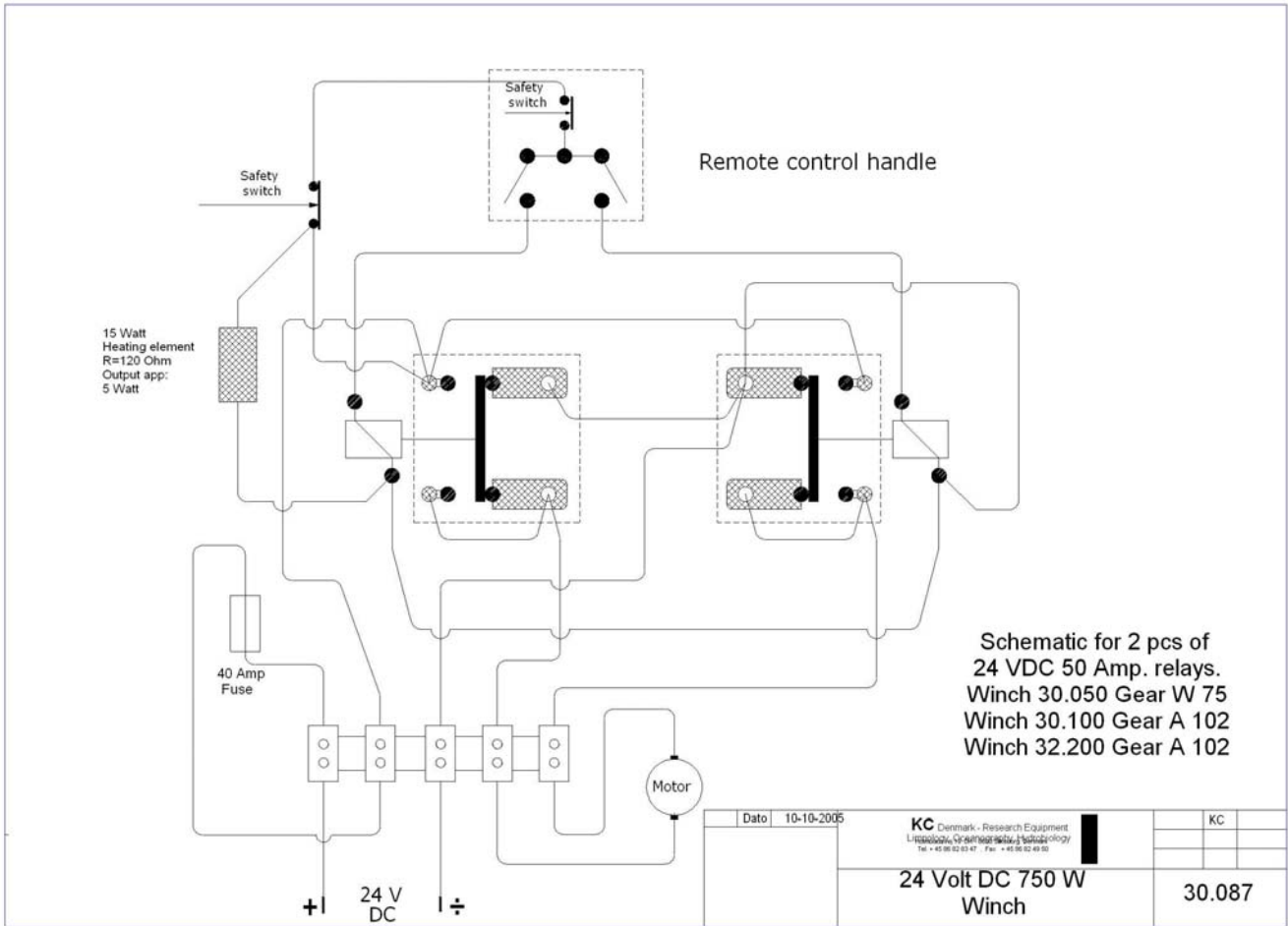
Description:	Ordering no.
CTD winch, 24 Volt DC – 750 W = 1 HP	32.200
Electrical:	
Supply	24 Volt DC
Power	750 watt = 1 HP
Motor	3100 rpm.
Mechanical:	
Material	AISI 316 Stainless steel Site plates: 5 mm Drum and disc brake: 3 mm
Drum	O.D./I.D. 320/200 mm
Drum rev.	40 rpm.
Drum capacity	1000 m ø3 mm conductor cable or other types.
Wire speed	Approx. max. 25 m/min.
Angle-gearbox	A102 76:1, torque of 80 Nm, tractive force 50 kg.
Brake system	Disc brake made of 3 mm AISI 316 stainless steel.
Ball bearings	AISI 304 stainless steel flange ball bearings, 3 pcs ø30 mm.
Dimensions:	
Height:	Inclusive manoeuvre box and motor: 730 mm
Length:	450 mm
Width:	Inclusive motor and exclusive slip-ring: 600 mm Inclusive 4 pol. slip ring device: 800 mm.
Weight:	App. 63 kg exclusive cable



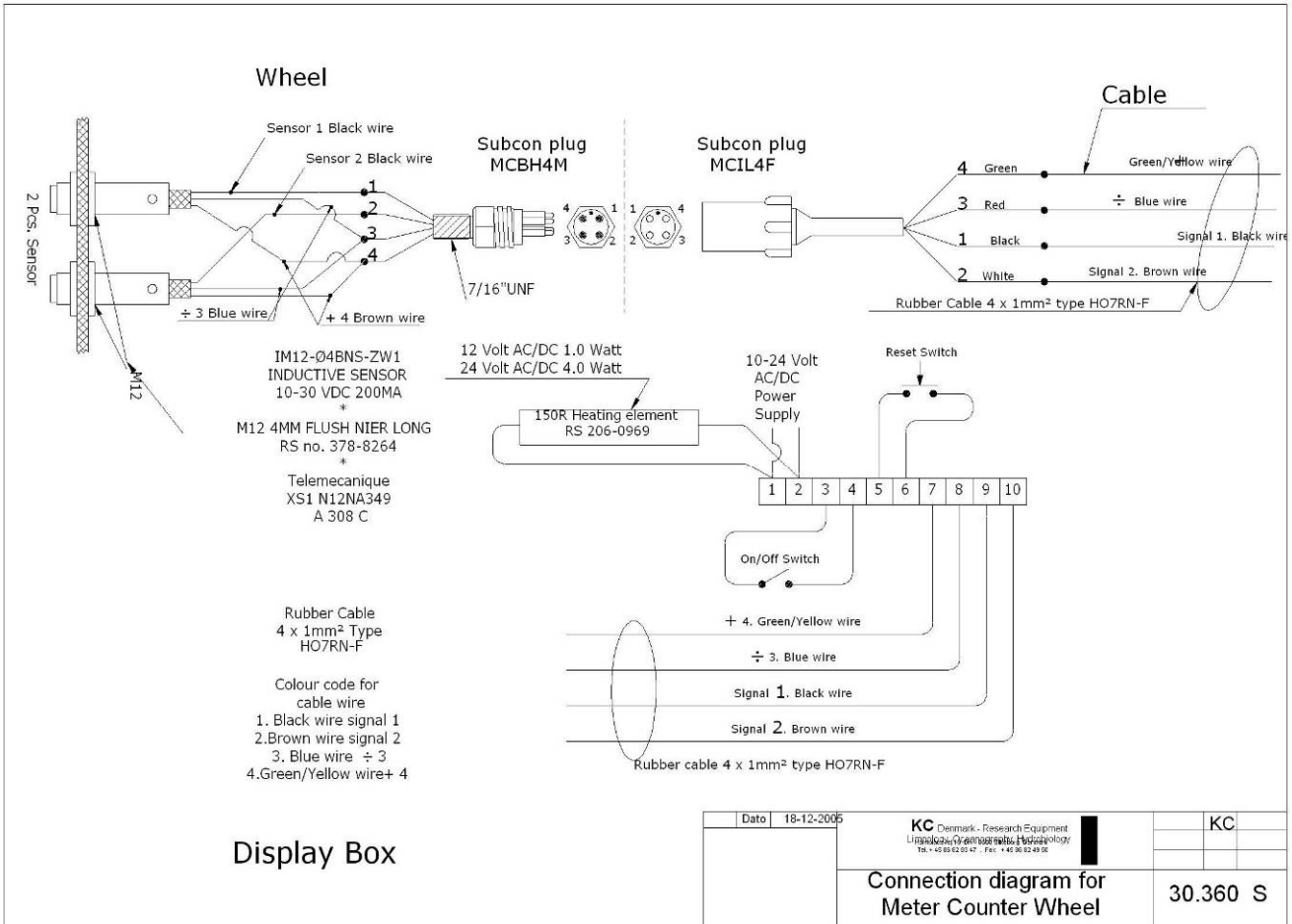
Mounting of winch.



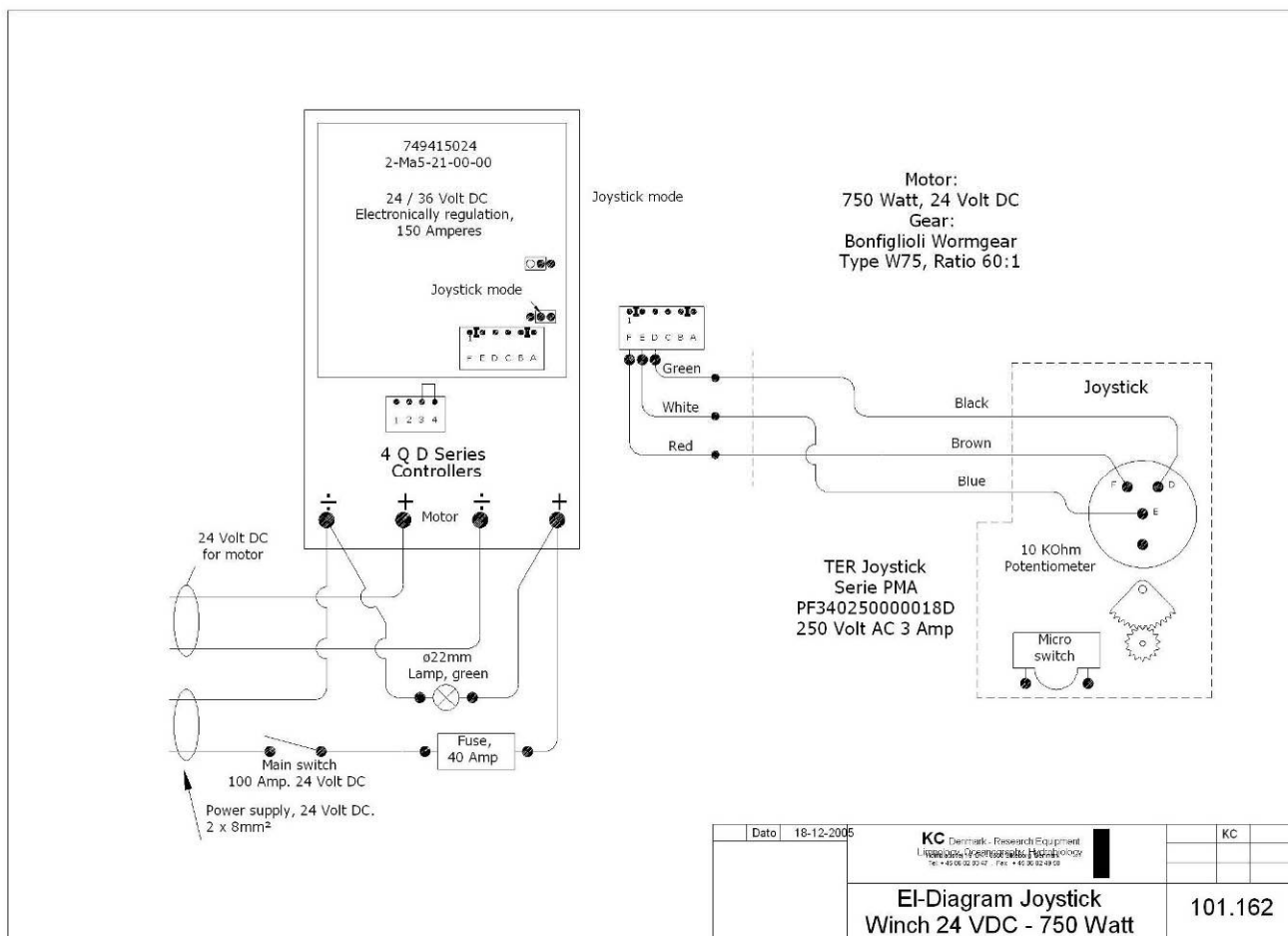
Dimensions.



Schematic - standard remote handle.



Schematic for meter counter wheel. (Optional)



Schematic for frequency regulated winch. (Optional)
Rev. January 16, 2006 - lkj

KC Denmark

Research Equipment
Limnology • Oceanography • Hydrobiology

E-mail: kc@kc-denmark.dk website: <http://www.kc-denmark.dk/>
Holmbladsvej 19 – DK-8600 Silkeborg – Denmark - Tel. +45 86 82 83 47 – Fax +45 86 82 49 50
Bank: Sydbank – S.W.I.F.T. SYBKDK22 IBAN DK5070460000104832 or
Bank: Danske Bank – S.W.I.F.T. DABADKKK IBAN6730003462779860
VAT no. DK 86 16 15 16