

# AquaForce

## Formerly known as Aquaproof

Updated January 2006

A range of general purpose water and dust resisting (IP65) fluorescent luminaires



- Injection moulded body and diffuser
- Accurate mouldings with a deep sealing channel with seamless gasket ensure IP65 resistance
- Choice of acrylic or polycarbonate diffuser. Acrylic for UV stability. Polycarbonate for maximum impact resistance
- Choice of switchstart or high frequency control gear
- Dimmable Digital ControlLite versions allow dimming down to 1% lamp power
- T8 (T26) 26mm Ø or T5 (T16) 16mm Ø fluorescent lamp options
- Integral emergency lighting options for high frequency versions with polycarbonate diffusers
- Quick fix bracket included for speed of installation

T26 (FD)	G13	18 - 70W
T16 (FD)	G5	14 - 49W
EN 60598	EN 60598 2.22	
Class I Electrical		
Glow wire 650°C - Acrylic diffuser		
850°C - Polycarbonate diffuser/canopy		
Chemical see page 303		
>0.2 Nm - Acrylic diffuser		
>6.0Nm - Polycarbonate diffuser/canopy		

### Materials/Finish

Canopy: injection moulded fire retardant polycarbonate in light grey (RAL 7035)

Diffuser: injection moulded acrylic or injection moulded, fire retardant UV stabilised polycarbonate.

Gear Tray: sheet steel, white enamelled.

Toggles: injection moulded polycarbonate (Stainless steel available as optional accessory kit)

### Installation/Mounting

Cable entry positions at each end of fitting (end sealing glands supplied). Installation via supplied quick fix bracket or screw fixing through identified locations in back of fitting. Through wiring kits 5 x 2.5m<sup>2</sup> for 10A max load.

Toggles (polycarbonate as standard) are easy and quick to close by hand.

### Specification

To specify state:  
Standard/emergency waterproof IP65 fluorescent fitting with injection moulded polycarbonate body and acrylic/polycarbonate diffuser for T26/ T16 lamps with High Frequency/Switchstart gear. As Thorn AquaForce



Single



Quick fix facility to ceiling



Open toggles



Chain suspension bracket



Fitting installed via quick fix bracket



Closed toggles

## Ordering Guide

Supplied with tri-phosphor 4000K lamp(s), except Dimmable Controlite versions

New Description	Acrylic diffuser		Polycarbonate diffuser		Emergency Polycarbonate diffuser	
	SAP Code	Old Cat. No.	SAP Code	Old Cat. No.	SAP Code	Old Cat. No.
<b>T8 (T26) Switchstart</b>						
AQUAFORC 1X18W T26 CP WD U840	96229609	LUSW118	96229515	LUSPW118		
AQUAFORC 1X36W T26 CP U840	96229611	LUS136	96229517	LUSP136		
AQUAFORC 1X58W T26 CP U840	96229613	LUS158	96229519	LUSP158		
AQUAFORC 1X70W T26 CP U840	96229615	LUS170	96229521	LUSP170		
AQUAFORC 2X18W T26 CP U840	96229610	LUS218	96229516	LUSP218		
AQUAFORC 2X36W T26 CP U840	96229612	LUS236	96229518	LUSP236		
AQUAFORC 2X58W T26 CP U840	96229614	LUS258	96229520	LUSP258		
AQUAFORC 2X70W T26 CP U840	96229616	LUS270	96229522	LUSP270		
<b>T8 (T26) High Frequency</b>						
AQUAFORC 1X18W T26 HF WD U840	96230300	LUZW118	96230301	LUZPW118		
AQUAFORC 1X36W T26 HF U840	96229617	LUZ136	96229523	LUZP136	96229529	EE3LUZP136
AQUAFORC 1X58W T26 HF U840	96229619	LUZ158	96229525	LUZP158	96229531	EE3LUZP158
AQUAFORC 1X70W T26 HF U840	96229621	LUZ170	96229527	LUZP170	96229533	EE3LUZP170
AQUAFORC 2X18W T26 HF U840	96230305	LUZ218	96230306	LUZP218		
AQUAFORC 2X36W T26 HF U840	96229618	LUZ236	96229524	LUZP236	96229530	EE3LUZP236
AQUAFORC 2X58W T26 HF U840	96229620	LUZ258	96229526	LUZP258	96229532	EE3LUZP258
AQUAFORC 2X70W T26 HF U840	96229622	LUZ270	96229528	LUZP270	96229534	EE3LUZP270
<b>T8 (T26) High Frequency Digital Dimmable Controlite</b>						
AQUAFORC 1X36W T26 HFD	Not available		96102812	LUP136CLD	96102816	EE3LUP136CLD
AQUAFORC 1X58W T26 HFD	Not available		96102814	LUP158CLD	96102818	EE3LUP158CLD
AQUAFORC 2X36W T26 HFD	Not available		96102813	LUP236CLD	96102817	EE3LUP236CLD
AQUAFORC 2X58W T26 HFD	Not available		96102815	LUP258CLD	96102819	EE3LUP258CLD
<b>T5 (T16) High Frequency</b>						
AQUAFORC 1X14W T16 HF WD U840	96102739	LUZW114	96102746	LUZPW114		
AQUAFORC 1X28W T16 HF U840	96014862	LUZ128	96102748	LUZP128	96102761	EE3LUZP128
AQUAFORC 1X35W T16 HF U840	96102742	LUZ135	96102750	LUZP135	96102763	EE3LUZP135
AQUAFORC 1X49W T16 HF U840	96102744	LUZ149	96102752	LUZP149	96102764	EE3LUZP149
AQUAFORC 2X14W T16 HF U840	96102740	LUZ214	96102747	LUZP214		
AQUAFORC 2X28W T16 HF U840	96102741	LUZ228	96102749	LUZP228	96102762	EE3LUZP228
AQUAFORC 2X35W T16 HF U840	96102743	LUZ235	96102751	LUZP235	96008129	EE3LUZP235
AQUAFORC 2X49W T16 HF U840	96102745	LUZ249	96102753	LUZP249	96102820	EE3LUZP249
WD - Single lamp 18W and 14W luminaires use wide enclosure as twin lamp						
<b>Accessories</b>						
<b>New Description</b>					<b>SAP Code</b>	<b>Old Cat. No.</b>
AQUAFORC KIT CH	CHAIN SUSPENSION KIT - SINGLE/TWIN LAMP				96005663	LUCS1
AQUAFORC KIT MSW1 SINGLE	WIRE SUSPENSION KIT - SINGLE LAMP				96200475	LUWS1
AQUAFORC KIT MSW1 TWIN	WIRE SUSPENSION KIT - TWIN LAMP				96012759	LUWS2
AQUAFORC KIT MSG SINGLE	GRIPPLE SUSPENSION KIT - SINGLE LAMP				96102695	LUGS1
AQUAFORC KIT MSG TWIN	GRIPPLE SUSPENSION KIT - TWIN LAMP				96102694	LUGS2
AQUAFORC KIT QUICK FIX SINGLE	QUICK FIX KIT - SINGLE LAMP				96003902	LUQF1
AQUAFORC KIT QUICK FIX TWIN	QUICK FIX KIT - TWIN LAMP				96003903	LUQF2
AQUAFORC KIT FIX	SCREW FIX AND SEAL KIT				96012580	LUSF
AQUAFORC KIT MRS	CONDUIT SUSPENSION SEAL KIT				96102720	LUC
AQUAFORC KIT BESA	CONDUIT BOX FIX AND SEAL KIT				96102719	LUCB
AQUAFORC 14/18 TWKIT	THROUGH WIRE KIT - 14/18W				96102771	LUTW600
AQUAFORC 28/36 TWKIT	THROUGH WIRE KIT - 28/36W				96102772	LUTW1200
AQUAFORC 35/49/58 TWKIT	THROUGH WIRE KIT - 35/49/58W				96100182	LUTW1500
AQUAFORC 70 TWKIT	THROUGH WIRE KIT - 70W				96102773	LUTW1800
AQUAFORC 14/18 KIT RS CLIP	STAINLESS STEEL TOGGLE KIT - 14/18W				96011075	LUTSS18
AQUAFORC 28/36 KIT RS CLIP	STAINLESS STEEL TOGGLE KIT - 28/36W				96011076	LUTSS36
AQUAFORC 35/49/58/70 KIT RS CLIP	STAINLESS STEEL TOGGLE KIT - 35/49/58/70W				96011077	LUTSS58/70

Data Table	Weight (kg)		Power (W)		Ambient Temperature (deg C*)			
	Switchstart	High Frequency	Switchstart	High Frequency	Minimum**		Maximum	
					Switchstart	High Frequency	Switchstart	High Frequency
1X18W T26	2.7	2.3	29	19	-10	-15	30	35
1X36W T26	2.9	2.5	46	37	-10	-15	40	40
1X58W T26	3.8	3.3	69	48	-10	-15	30	30
1X70W T26	4.1	3.6	81	57	-10	-15	25***	35
2X18W T26	2.8	2.4	57	38	-10	-15	30	35
2X36W T26	4.2	3.1	94	63	-10	-15	30	35
2X58W T26	5.3	3.9	142	91	-10	-15	30	35
2X70W T26	5.6	4.2	162	109	-10	-15	25***	30
1X14W T16	-	2.3	-	17	-	-15	-	40
1X28W T16	-	2.5	-	32	-	-15	-	45
1X35W T16	-	3.3	-	37	-	-15	-	45
1X49W T16	-	3.3	-	55	-	-15	-	30
2X14W T16	-	2.4	-	33	-	-15	-	35
2X28W T16	-	3.1	-	59	-	-15	-	35
2X35W T16	-	3.9	-	75	-	-15	-	30
2X49W T16	-	3.9	-	99	-	-15	-	35

\* With polycarbonate diffuser and without through wiring - for acrylic diffuser or through wiring reduce by 5 deg C

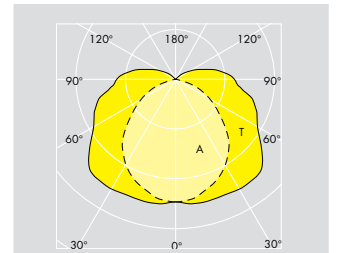
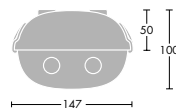
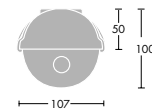
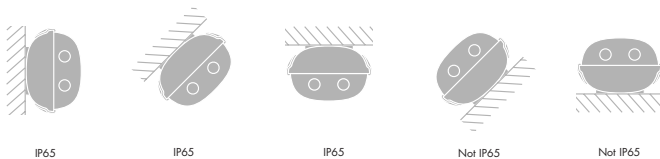
\*\* For constant operation at temperatures below -10 deg C Coldforce luminaires are recommended

\*\*\* Applies to polycarbonate or acrylic diffuser



New Description	Single	Twin
<b>Fixing, Sealing &amp; Wiring Accessories</b>		
QUICK FIX BRACKETS	Supplied As Standard	
CHAIN SUSPENSION	LUCS1	LUCS2
WIRE SUSPENSION	LUWS1	LUWS2
GRIPPLE ADJUSTABLE WIRE SUSPENSION	LUGS1	LUGS2
CONDUIT BOX MOUNTING	LUCB	
CONDUIT SUSPENSION	LUC	
REAR ENTRY FIX & SEAL KIT	LUSF	

New Description	600mm	1200mm	1500mm	1800mm
<b>Fixing, Sealing &amp; Wiring Accessories</b>				
STAINLESS STEEL TOGGLES	LUTSS18	LUTSS36	LUTSS58/70	LUTSS58/70
THROUGH WIRING KIT	LUTW600	LUTW1200	LUTW1500	LUTW1800



**AquaForce HF with polycarbonate diffuser**  
 Lamps: 2 x 58W T26  
 ULOR: 0.08 DLOR: 0.55 LOR: 0.63  
 SHR max: 2.00 LMC: E

Emergency Version 2m Escape route				
Min illum (lux)	Mounting height (m)	Max spacing (m) centre to end	between centres	
1.0 trans	2.5	3.10	8.20	
	3.0	3.15	8.60	
1.0 axial	2.5	2.45	6.40	
	3.0	2.50	6.70	
	3.5	2.40	6.90	

	Overall Lengths	Fixing Centres Screw	Single/Twin Conduit	Quick Fix
<b>T8</b>				
18W	660	360 x 32/72	450	360
36W	1260	720 x 32/72	600	720
58W	1560	1016 x 32/72	600	1016
70W	1825	1174 x 32/72	600	1174
<b>T5</b>				
14W	660	360 x 32/72	450	360
28W	1260	720 x 32/72	600	720
35W	1560	1016 x 32/72	600	1016
49W	1560	1016 x 32/72	600	1016

Open area				
Min illum (lux)	Mounting height (m)	Max spacing (m) centre to end	between centres	
0.5	2.5	2.80	2.80	8.80
	3.0	2.90	2.90	9.30
	3.5	2.95	2.95	9.90