

HamiltonJet Model 521B
Application Review

Third Series of Hamilton Jet Propelled Rescue Craft for KNRM



Two of the new 18.8m "Arie Visser" RIB Class entered service earlier this year with the Dutch Rescue Authority, KNRM. Developed from the KNRM's 14m short range RIB Class, the larger 18.8m Class has sixteen hours endurance at 34 knots for all weather search and rescue out to the limits of the Dutch economic zone in the North Sea.

Although four of these craft were initially ordered, the "Arie Visser" and "Koning Willem I" have performed so well that the fifth and sixth craft in the series have already been confirmed.

By far the largest of the KNRM RIB Jet propelled fleet, the "Arie Visser" Class (named after the first boat in the class) is also the speediest, comfortably exceeding the required service speed of 32 knots during official trials.

Since 1988 when the Dutch Rescue Authority KNRM launched the first of their 14m "Johannes Frederick" Class waterjet propelled RIB's, all their subsequent new diesel inboard craft have been waterjet propelled. The 14m class now numbers eight craft, all but the first of which are propelled by twin Hamilton HJ362 waterjets.

In 1990 the first of the beach launched 10m "Valentijn" Class entered service

propelled by twin Volvo diesel engines directly driving Hamilton HJ291 waterjets. Eleven of these craft are in service and the first of the replacement 'Valentijn 2000' series is under construction. The new series will have twin Volvo diesel engines driving larger HJ322 jets via a reduction gearbox.

The new 18.8m 'Arie Visser' class now entering service has reduction gear driven Hamilton HM521 waterjets, giving the craft efficient open sea operation in the extremes of North Sea weather conditions and up to six tonnes bollard pull for towing.

Also under development is the first of a new "Harder 2000" 9m RIB series for the KNRM, which will be propelled by twin Volvo diesel engines each driving Hamilton HJ241 waterjets.

► Brief Specifications

NAME:	'Arie Visser' Class
SERVICE:	KNRM Lifeboats
LENGTH:	18.8 metres [LOA]
BEAM:	6.1 metres
DRAUGHT:	1.03 metres
CONSTRUCTION:	Aluminium alloy
WEIGHT / CREW:	28 tonnes / six
FUEL CAPACITY:	6,100 litres
RANGE & SPEED:	16 hours @ 34 knots
WATERJETS:	Twin Hamilton Jet Model 521
WATERJET CONTROLS:	HamiltonJet Type HYRC
ENGINES:	Twin MAN D2842 LE 408 735bkW (985hp) @ 2100rpm
GEARBOXES:	Reintjes WLS234L, 1.644 : 1
DESIGNER:	Willem DeVries Lentsch, Amsterdam, Netherlands
BUILDER:	'Arie Visser' – AluBoot BV 'Koning Willem I' – Jachtbouw Habbeke
Hamilton Jet DISTRIBUTOR:	AMW Marine, Netherlands
REFERENCES:	Jetbriefs 191 & 206

