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# DAN DRYER RAILWAY





# CUSTOMISING FOR THE RAILWAY INDUSTRY

With increased customer expectations to public transport, especially to rail transport, the facilities and comfort of toilet facilities on board trains are of major concern to passengers.

Having comprehensive experience in developing and manufacturing rail compliant washroom products and a vast knowledge of the many complex standards and requirement specifications, DAN DRYER has earned a unique position as a leading European manufacturer of build-in hand dryers and baby changing stations for installation in railway carriage toilets on board rolling stock and in station buildings.

Our extensive know-how in this highly specialized field has made us a preferred supplier of complete hygiene solutions for a large number of railway projects across Europe.





# BUILD-IN HAND DRYER

## HOUSING

2 mm aluminium plate. Unpainted or powder-coated aluminium.

## INSTALLATION

Air inlet to be held free. Minimum distance to facing surface: 10 mm.  
The outlet nozzle is meant for the mounting of a flexible aluminium hose.

## AIR VOLUME

72 l/sec (4,32m<sup>3</sup>/min) . measured at the outlet. A precondition for a high air volume is that the flexible hose is kept as short and as straight as possible to avoid air pressure build-up.

## MOTOR

Fan motor with sealed ball bearings. Brushless. Humidity protected. Automatic thermal cut-out.

## HEATING ELEMENT

Alloy filament coil mounted on a mica support in a non-inflammable cone. 2-level automatic thermal cut-out.

## TIMER

Electronic timer unit to be activated through external IR sensor.

## IR SENSOR

External IR sensor unit controlled by the timer is included with the dryer unit. Standard length of connector cable: 70 mm (other lengths on request).

## CONNECTION

Power supply 50 Hz – through WAGO type connector. Insulation class: Class I. The hand dryer may be earthed through WAGO connector or externally on two 6 mm threaded grounding studs.

## FUNCTIONALITY

Upon activation, the dryer will run until hands are removed again. Automatic stop after 3 min. of continuous use.

## COMPLIANT TO THE FOLLOWING ROLLING STOCK NORMS

- EN 50121-3-2 (EMC)
- EN 50155 (Electronic Eqpt)
- EN 45545-2 (Fire & Smoke, HL3)
- EN 61373 (Shock & Vibration, Cat. 1 Class B)

## CERTIFICATIONS

- CE
- RoHS

	MODEL 178	MODEL 142
Power supply	24 VDC	230 VAC
Motor	110 W	110 W
Heating element	450 W	1500 W
Customisation options	Activation via IR sensor	Activation via pushbutton or through IR sensor
	-	Heating element in different capacities (up to 2250 W)
	-	Hand dryer / recirculation heater combination

DIMENSIONS	
Height excl. outlet nozzle	246 mm
Height incl. outlet nozzle	293 mm
Width	297 mm
Depth	122 mm
Outlet nozzle	Ø80 mm



# BABY CHANGING STATION

Safety, durability, quality, and user friendliness are reasons why BJÖRK baby changing station is chosen for rolling stock toilet facilities.

We have also taken mom and dad into account and the baby changing station from the BJÖRK series is perfectly adapted ergonomically to provide a secure base and a comfortable working posture for the parents. In addition, the unit is equipped with torsion springs to ensure a user-friendly opening and closing with just one hand.

The unit complies with TSI-PRM 1300/2014/EU and has a carrying capacity of up to 80 kg.

## DESCRIPTION

- Changing surface in powder-coated aluminium. Axle and levers in electro-galvanised steel
- Very strong construction providing optimum carrying capacity and long product life
- To save space, the table folds up against the wall when not in use
- Easy to clean

## COMPLIANT TO THE FOLLOWING ROLLING STOCK NORMS

- TSI-PRM 1300/2014/EU
- EN 45545-2-5:2013+A1:2015 (Fire & Smoke, HL3)
- EN 61373 (Shock & Vibration, Cat. 1 Class B)
- EN 12221-2:2013
- EN 71-3:2013+A1:2014



DIMENSIONS	
Height (folded up)	771 mm
Height (folded down)	304 mm
Width	552 mm
Depth (folded down)	751 mm
Depth (folded up)	100 mm



# DISPENSER

Install build-in or wall mounted dispensers in rolling stock toilet facilities.

Manual dispenser for sanitiser, foam or soap.

- For build-in: No housing
- For wall mounting: Housing made of 1.5 mm brushed stainless steel, AISI 304
- Holds approx. 0,95 l soap (800-950 doses)

## COMPLIANT TO THE FOLLOWING ROLLING STOCK NORMS

- EN 45545-2 (08/2013)
- EN ISO 4589-2 (06/2006)



DIMENSIONS	
Height	340 mm
Width	120 mm
Depth	125 mm
Depth (front opened)	366 mm









# REFERENCE LIST

Below please see some of the railway clients we have helped:

- TGV Atlantique, Lacroix
- TGV Sud-Est, RISE-refurb
- Alstom TGV 2N2 Euroduplex
- Alstom Coradia/Nordwestbahn
- M6 Belgium
- Siemens Desiro Class 380 First Scotrail
- Siemens Desiro City/Thameslink
- RBS Next
- NedTrain VIRM refurbishments
- Stadler Sweden/Öresundståg AB
- Stadler Sweden/X2000
- BFG International/SLT
- Bombardier London Site
- German Deutsche Bahn
- French SNCF
- Eurostar, UK
- Project Nightjet
- Eurotunnel

