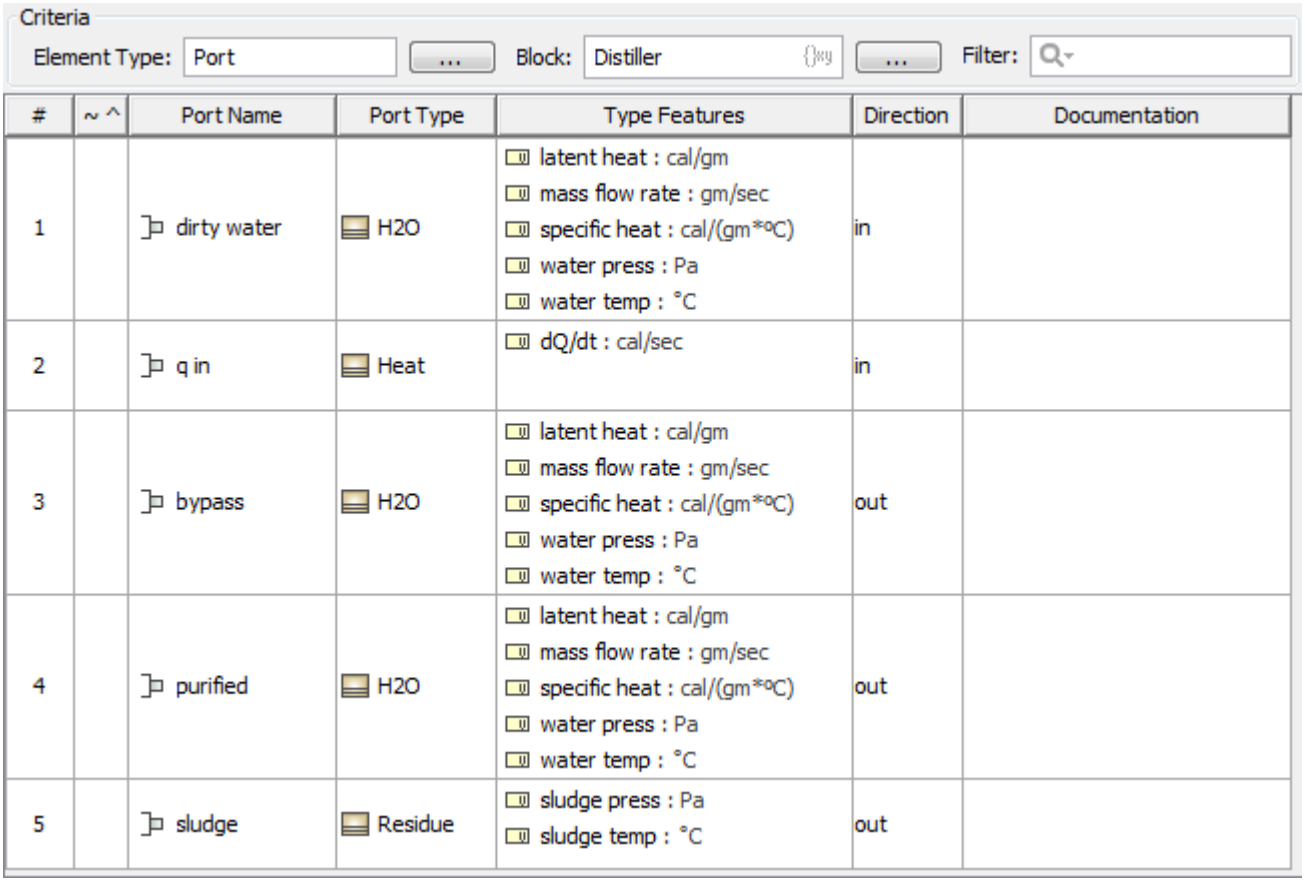
Blackbox ICD Table

The Blackbox ICD Table represents all external Ports/interfaces of the selected Block. The table is useful when trying to identify what kind of inputs and outputs are available in the selected system.

In the following example, the distiller system has two inputs (*dirty water* and *q in*) and three outputs (*bypass*, *purified* and *sludge*). In this case, the Port *dirty water*, Port *purified*, Port *bypass* support such value properties as: *water temp*, *water press*, etc. Pay attention, that the input to distiller is a *dirty water* (row 1) and the output from distiller is *purified* water (row 4). Both of them contains the same properties but it may have different values defined (they are not defined in the figure). Learn how to create and work in the Interface Control Documents >>



#	~ ^	Port Name	Port Type	Type Features	Direction	Documentation
1		dirty water	H2O	latent heat : cal/gm mass flow rate : gm/sec specific heat : cal/(gm*°C) water press : Pa water temp : °C	in	
2		q in	Heat	dQ/dt : cal/sec	in	
3		bypass	H2O	latent heat : cal/gm mass flow rate : gm/sec specific heat : cal/(gm*°C) water press : Pa water temp : °C	out	
4		purified	H2O	latent heat : cal/gm mass flow rate : gm/sec specific heat : cal/(gm*°C) water press : Pa water temp : °C	out	
5		sludge	Residue	sludge press : Pa sludge temp : °C	out	

The Blackbox ICD Table of the Distiller Block.

A Blackbox ICD Table consists of the following columns.

Column name	Description
#	A row number.
~ ^	Displays if Port is conjugated (~) or inherited (^).
Port Name	A Port name.
Port Type	A Port type.
Type Features	Displays all the features (e.g., Flow property, Part property) of the Port type.
Direction	Displays a combined direction prefix of the Port.
Documentation	Displays a documentation text. If it is not described, click to edit.