

Somicon AG

WKL-956 c/o Novartis, Postfach, CH-4002 Basel

### Summary of Nitto-Denko Ultrafiltration Modules

#### EXTERNAL PRESSURE TYPE

General Properties for all modules:

Material **Polysulfone**

pH Range **1-14**

Module	Housing Material	Capillary ID/OD mm	Membrane Area m <sup>2</sup>	Length/Diameter mm	Maximum Temperature °C	Maximum Inlet Pressure* bar	Maximum Permeate Pressure* bar	Heat sanitizable? yes/no	Maximum Flux (25°C)** m <sup>3</sup> /h/bar	Applications
NTU-3306-K4R	Polysulfone	0.7 / 1.3	14	1077 / 114	98	6	6	yes	7	Final Filter for Ultrapure Water High particle rejection, high flux, quick start-up

\* values for 5-40 °C, reduce when at higher temperature

\*\* value as initial flux. With time, a reduction will occur. Please consult Somicon/Nitto

#### INTERNAL PRESSURE TYPE

General Properties for all modules:

Material **Polysulfone**

pH Range **1-14**

Module	Housing Material	Capillary ID/OD	Membrane Area m <sup>2</sup>	Length/Diameter mm	Maximum Temperature °C	Maximum Inlet Pressure bar	Maximum Permeate Pressure* bar	Heat sanitizable? yes/no	Maximum Flux m <sup>3</sup> /h	Applications
NTU-3050-C4H	Hard Clean PVC	0.55 / 1.0	11.3	1077 / 114	40	6	3	no	4.7	Final Filter for Ultrapure Water
NTU-3050-C3H	PVC	0.55 / 1.0	6.3	1077 / 89	40	6	3	no	2.2	Quick start-up of resistivity, high flux
NTU-3250-C4K	Hard Clean PVC	1.1 / 1.9	6	1077 / 114	40	7	3	no	1.9	Industria Process / Waste Water
NTU-3050-C3R	Polysulfone	0.55 / 1.0	6.3	1077 / 89	95	6	4	yes	2.2	Final Filter for Ultrapure Water, Hot Water San.
NTU-3050-C1R	Polysulfone	0.55 / 1.0	0.8	1077 / 35	80	4	3	up to 80 °C	0.2	Lab Evaluation
NTU-3250-C3R	Polysulfone	1.1 / 1.9	3.4	1077 / 89	95	7	4	yes	1.1	Food, Industria, Process Wastewater
NTU-3250-C1R	Polysulfone	1.1 / 1.9	0.4	1077 / 35	80	4	1	up to 80 °C	0.1	Laboratory Evaluation

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\*\* value as initial flux. With time, a reduction will occur. Please consult Somicon/Nitto