## Solvent Resistant Nichipet EX Nichipet EX Plus II

Chemical Resistant Model of Nichipet Series





- DPTFE (Fluorine resin ) in the air tight chamber of the instrument.
- ▷A Perfluoro rubber O-ring with low cubical expansion in the air tight parts. >All models have plungers made in materials resistant to organic solvents.
- ▷An alloy spring to avoid metal corrosion by organic solvents.
- $\blacksquare$  Hyper blower system, longer second-push stroke, improves dispensing efficiency. (  $2\mu L, 10\mu L$  )

■Fully autoclavable. (121°C for 20 minutes)

- Enhanced UV resistance for better use in UV hoods.
- Easy-Calibration function provides simple lab calibration.
- Ceramic plungers are used for volume models. (  $200\mu$ L  $10000\mu$ L )
- The one-touch locking mechanism makes it easy to lock the sample volume.

\*All features of Nichipet EXII are available on Nichipet Premium.

Specifications	5
Cat. No	Volume setting

Cat. No	Volume setting	Volume range(µL)	Increments (µL)	Usable tips			
00-NPLO2-2	Digital setting	0.1 – 2	0.002	BMT2-UT/UTWR/UTWRB、FUT/FUTRB			
00-NPLO2-10		0.5 – 10	0.01	BMT2-SS/SSR/SSRB、FSS/FSSRB			
00-NPLO2-20		2 – 20	0.02	BMT2-SG/SGR/SGRB、FSG/FSGRB			
00-NPLO2-100		10 - 100	0.1	BMT2-SG/SGR/SGRB、FSE/FSERB			
00-NPLO2-200		20 - 200	0.2	BMT2-SG/SGR/SGRB、FAG/FAGRB			
00-NPLO2-1000		100 - 1000	1	BMT2-LG/LGR/LGRB、FLG/FLGRB			
00-NPLO2-5000		1000 - 5000	10	BMT2-X/XR/XRB			
00-NPLO2-10000	1000 – 10000		10	BMT2-Z/ZR/ZRB			

\*See P15-16 for tip selection

## Accuracy and Precision

Cat. No	Volume(µL)	Accuracy(%)	Precision(%)	Cat. No	Volume(µL)	Accuracy(%)	Precision(%)
00-NPLO2-2	0.2	±12.0*	≦6.0*		20	±1.0	≦0.5
	1	±5.0	≦2.5	00-NPLO2-200	100	±0.8	≦0.3
	2	±3.0	≦1.0	]	200	±0.8	≦0.2
	1	±4.0	≦3.0		100	±1.0	≦0.5
00-NPLO2-10	5	±1.0	≦1.0	00-NPLO2-1000	500	±0.8	≦0.3
	10	±1.0	≦0.5		1000	±0.7	≦0.2
	2	2 ±5.0 ≦3.0		1000	±1.0	≦0.3	
00-NPLO2-20	10	±1.0	≦1.0	00-NPL02-5000	2500	±0.8	≦0.3
	20	±1.0	≦0.4		5000	±0.6	≦0.2
	10	±2.0	≦1.0		1000	±2.0	≦0.4
00-NPLO2-100	50	±1.0	≦0.3	00-NPLO2-10000	5000	±0.8	≦0.3
	100	±0.8	≦0.3		10000	±0.4	≦0.2

\*The AC and CV values below 0.2µL depend much on the operator's skill and the environment under which the pipette is used. \*The AC and CV values are the values by use of the disposable tips described in the catalogue. \*The specification and price are subject to change without notice due to modifications for quality improvement.

\*The Nichipet EX Plus I is made of parts resistant to organic solvents which makes it more durable than previous pipettes in environments with organic solvents. However, it does not guarantee accuracy of dispensing organic solvents. \*As the body of the Nichipet EX Plus II is not resistant to organic solvents, make sure it does not come in contact with the organic solvents.

## The chemical resistance of Perfluoro rubber O-ring

## ▷A perfluoro rubber O-ring is installed in Nichipet EX plusI.

>The volume growth of Perfluoro rubber against acid, alkalis, ammonia water, ester, furan and amine is small.

Chemicals	Temperature	Test days	Perfluoro	Fluorine rubber normal O-ring	Chemicals	Temperature	Test days	Perfluoro	Fluorine rubber normal O-ring
Inorganic acid & Organi	c acid				Ketone, Ester, Ether				
Glacial acetic acid	40°C	21	A	C	Acetone	40°C	21	В	D
Acetic anhydride	40°C	21	A	С	Methyl ethyl ketone	40°C	21	A	D
Inorganic alkalies					Methyl isobutyl ketone	40°C	21	В	D
28% Ammonia water	40°C	21	A	D	Isophorone	40°C	21	A	D
Furan & Aldehyde					Diacetone alcohol	40°C	21	A	С
Tetrahydrofuran	40°C	21	С	D	gamma - Butyrolactone	40°C	21	A	С
2-Methyl Tetrahydrofuran	40°C	21	В	D	Diethylene carbonate	40°C	21	A	D
Acetaldehyde	25°C	21	В	D	Acetylacetone	40°C	21	A	D
Acetophenone	40°C	21	A	С	Methyl formate	25°C	21	В	D
Inclusive nitrogen comp	ound				Methyl acetate	40°C	21	A	D
Acrylic nitrile	40°C	21	A	C	Acetic ether	40°C	21	В	D
Ethylene diamine	40°C	21	В	D	Isoamyl acetate	40°C	21	A	D
Pyridine	40°C	21	A	С	Methyl acetoacetate	40°C	21	A	С
N, N - dimethylformamide	40°C	21	A	D	Ethyl acetoacetate	40°C	21	A	С
N, N - dimethylacetamide	40°C	21	A	D	Acrylic acids	40°C	21	A	С
N-methyl-2-pyrrolidone	100°C	7	A	D	Ethyl acrylate	40°C	21	A	D
Carbon hydride, Carbon	hydride halide	:			Diethyl oxalate	40°C	21	A	D
Toluene	40°C	21	A	В	Triethyl phosphate	40°C	21	A	D
Xylene	40°C	21	A	В	Tricresyl phosphate	100°C	7	A	С
Chloroform	40°C	21	В	В	Diethyl ether	25°C	21	В	С
Alcohols					1, 4 - dioxan	40°C	21	A	С
Methyl carbitol	40°C	21	A	B	Methyl - t - butyl ether	100°C	7	A	С
Ethyl carbitol	40°C	21	A	В			-		-
Others, Oil, Steam									
DN cut HS-1 cutting oil	130°C	11	A	A	*For more information, please feel free to contact us.			us.	
0-148LCT Air craft engine oil	175°C	20	A	В	7				

A : Volume expansion rate below 5%
B : Volume expansion rate 5% - 20%
C : Volume expansion rate 20% - 50%
D : Volume expansion rate over 50%

No problem at all No problem Possible with some conditions Nonusable