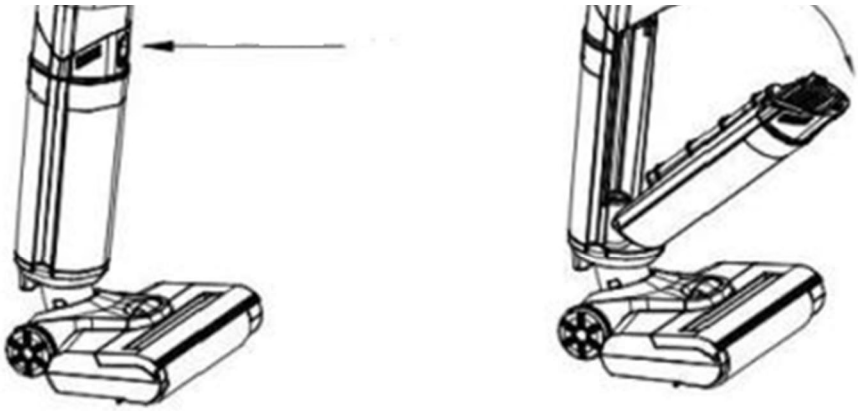
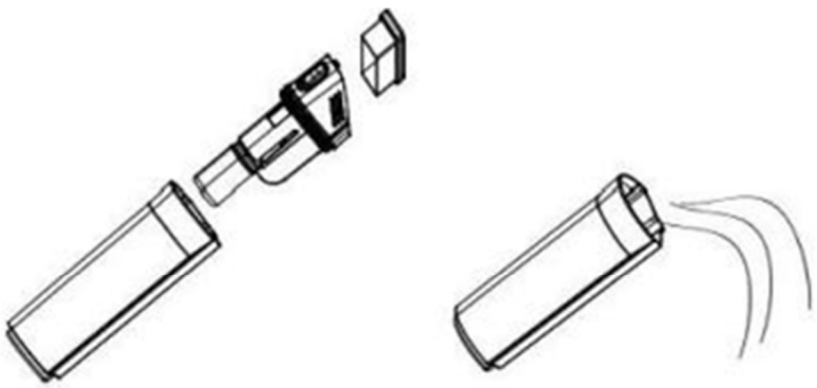
&]\V]F]HQLH]ELRUQLNyZ QD EUXGQ ZRG

: FHOX]DFKRZDQLD NRPIRUWX L ZLH*R FL QDOH*\ SR ND*
ZDáHN Z\P\ü]ELRUQLN QD QLHF]\VWR FL L Z\F]\ FLü L Z\V
3R]RVWDZLHQLH]X*\WHM ZRG\ Z]ELRUQLNX L QD ZDáNX E
]HEUDQ\FK] SRGáRJL EDNWHULL L JU]\EyZ L Z NRQVHNZHQ
SUDF\

&]\V]F]HQLH]ELRUQLND QD EUXGQ ZRG QDFL QLM L SU
]ELRUQLN QD EUXGQ ZRG QDG]ELRUQLNLHP QD EUXGQ Z
ZRG :\FL JQLM JyUQ SRNU\Z]ELRUQLND QD EUXGQ ZRG
]ELRUQLN 1DVW SQLH X*\M PDáHM V]F]RWNL Z]HVWDZLH
]DQLHF]\V]F]HQLD QD JyU]H ILOWUD]ELRUQLND QD EUXGQ
ZRG L VSáXF] F]\VW ZRG)LOWU +(3$ RF]\ ü L Z\VXV] QD
1D NRQLHF HOHPHQW\ ]ELRUQLND QD EUXGQ ZRG V PRQ\
GHPRQWD*X 3RND]DQR WR QD U\VXQNX L U\VXQNX

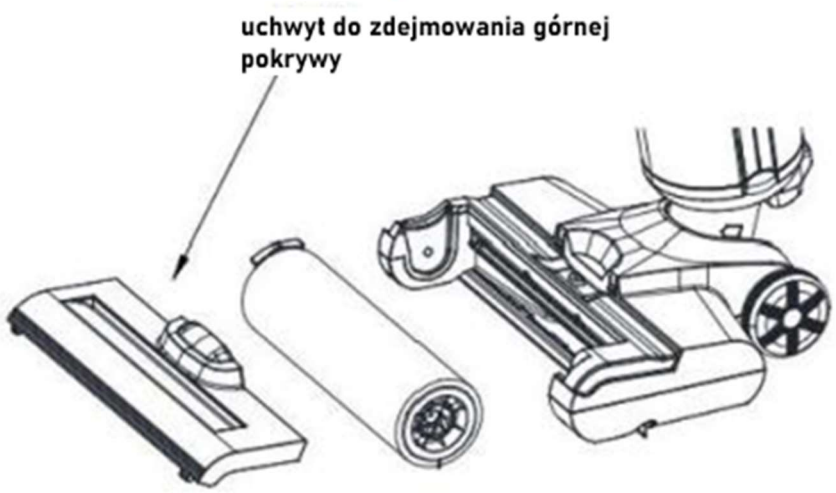


Rys 17

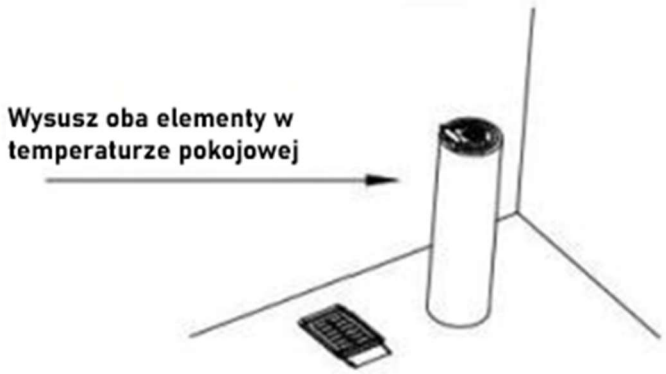


Rys 18

&]\V]F]HQLH V]F]RWNL]ZS\FRZHMRQLHF SU]H]URF]\VWHM
SRFL JQLM XFKZ\W GR JyU\ DE\ JQLD]GR NDUW\ RGSRZLDG
SRGáRJRZHM L XFKZ\W V]F]RWNL SRGáRJRZHM RGSDGá\ G
GROQHJR NR FD SU]H]URF]\VWHM SRNU\Z\ V]F]RWNL L Z\MP
NODPUD] ERNX V]F]RWNL URONRZHM MHVW SRFL JQL WD G
]DQLHF]\V]F]HQLD QD ZHZQ WU]QHM VWURQLH ZORWX SRZL
SU]H]URF]\VWD SRNU\ZD V]F]RWNL SRGáRJRZHM V XVXZDQ
SRZLHWU]X D QD NRQLHF LQVWDORZDQH QD V]F]RWFH SR
PRQWD*X L GHPRQWD*X -HVW WR SRND]DQH QD U\VXQNX



Rys 19



Rys 20

0DV]\Q QDOH*\ SU]HFKRZ\ZDü Z FKáRGQ\P L VXFK\P PLHMVFX
VáRQHF]QHJR

=Z\NOH ILOWU +3$ L V]F]RWNL ZDáNRZH V Z\PLHQLDQH FR PI
Z\PLDQ\ ]DOH*\ RG U]HF]\ZLVWHJR X*\WNRZDQLD

3DUDPHWU\ WHFKQLF]QH

1DáDGXM EDWHUL GR SHáQD SU]HG SLHUZV]\P X*\FLHP

1D]ZD SURGXNWX	%H]SU]HZRGRZ\ RGNXU]DF VXI
0RG	*7 3
1DSL FLH]QDPLRQRZH	(
0RF]QDPL	:
1DSL FLH áDGRZDQLD	(

5R]ZL]\ZDQLH SUREOHPyZ

²²-H OL SRGF]DV X*\WNRZDQLD PDV]\Q\ ]DXZD*\V] MDNLH QLHS Z\NOXF]\ü]JRGQLH] SRQL*V] WDEHO

3UR	6SU
0\MND SRGáRJRZD QLH G]LDáD	6SUDZG(F]\ PDV]\QD Z\PDJD áDGRZDQLD – 6SUDZG(F]\ PDV]\QD MHVW XV SLRQRZR 7D PDV]\QD QLH E G] G]LDáDü MH OL]RVWDQLH XVW SLRQRZR – 6SUDZG(F]\ URONL V]DPRQW VZRLP P
6LáD VVDQLD VSDGD L Vá\FKD	6SUDZG(F]\ ]ELRUQLN QD EUX REF\FK – 6SUDZG(F]\ ]ELRUQLN QD EUX MHVW]PRQWRZDQ\ – 6SUDZG(F]\ ]ELRUQLN QD EUX WND]ELH V F]

2FKURQD URGRZLVND

8W\OL]DFMD	=ZUyü V]F]HJyOQ XZDJ QD 3U]HG]áRPRZDQLHP PDV]\Q\ Q Z\M ü DNXPXODWRU .LHG\ DNXPXODWRU PXVL]RVW PDV]\QD SRZLQQD E\ü Z\á F]RQ $NXPXODWRU]DZLHUD OLW NV V]NRGOLZ\ GOD URGRZLVND L Z\U]XFDQ\ Z FHOX RFKURQ\ UR $NXPXODWRU\ QDOH*\ VRUWRZ SRGGDZDü UHF\NOLQJRZL QLH GR PLHFL D WDN*H QDOH*\ M]XW\OL]RZDü REFKRG]Lü VL] EH]SLH

,QVWUXNFMH GRW\F] FH JZDUDQFML

1LH SRGOHJDM JZDUDQFML Z\GDU]HQLD]ZL]DQH]

- 1LHSU]HVWU]HJDQLHP LQVWUXNFML]DZDUW\FK Z LQVWUXN SRZRGX QLHZáD FLZHJR X*\WNRZDQLD]DQLHGEDQLD RSLH
- 1RUPDOQ\P]X*\FLHP F] FL HNVSORDWDF\MQH LWS WDNL F]\V]F] FH Sá\Q GR F]\V]F]HQLD SRGáyJ LWS
- 1LHSUDZLGáRZH]DEORNRZDQLH QLHSUDZLGáRZR Z\F]\V]F
- 3URGXNW\ QLHSRFKáDQLDM FH V X*\ZDQH Z SU]\SDGNX XV ZFKáDQLDQLHP ZRG\
- 8V]NRG]HQLD OXE DZDULH VSRZRGRZDQH X*\FLHP SURGXN QRUPDOQH X*\WNRZDQLH GRPRZH
- 8V]NRG]HQLD OXE DZDULH VSRZRGRZDQH X*\FLHP QLHRU\J QDSUDZDPL OXE PRG\ILNDFMDPL QLHZ\NQDQ\PL Z FHQWU
- 6NUyFRQ\ F]DV UR]áDGRZDQLD DNXPXODWRUD] SRZRGX VV X*\WNRZDQLD
- 1LHSUDZLGáRZD LQVWDODFMD

.DUWD JZDUDQF\MQD

,PL L QD]ZLVNR BBBBBBBBBBBBBBBBBBBBBBBBBBB 0RGHO 3UI

1XPHU WHOHIRQXBBBBBBBBBBBBBBBBBBBBBBBBBBB 1XPHU VH

$GUHV BBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBB 1XPHU IDN

'DWD]DNXSX BBBBBBBBBBBBBBBBBBBBBBBBBBBBB 1XPHU]DP

.DQDá]DNXSRZ\ BBBBBBBBBBBBBBBBBBBBBBBBBBB

'DWD GRVWDZ\	2SL&] FL]DPLHQQH XVWHUNL DZDULL =DVWR\	SU]\F]\Q\	'DWD UHSHUDFML	3RGSLV $XWRU QHO LNRQVHUZDF\MQHJR

:DUXQNL JZDUDQFML

- 2G FKZLOL]DNXSX PDV]\QD MHVW REM WD URF]Q JZDU
  ]X*\ZDM F\FK VL Z QRUPDOQHM HNVSORDWDFML WDNLFK M
- 6SU]HGD* SURZDG]RQD MHVW]GDOQLH L GDWD]DNXSX MHV

-H OL Z RNUHVLH JZDUDQF\MQ\P SURGXNW XOHJD DZDULL
SRZ*V]\FK ZVND]yZHN SURVLP\ R NRQWDNW]H VSU]HGDZF
VHUZLVRZ SURGXNWX DOH MH OL SU]HNURF]\ RQ RNUHV
NRQVHUZDFML NRV]W\ PDWHULDáyZ RSáDW\ ]D WUDQVRUW

- .DUWD JZDUDQF\MQD 1D WHM NDUFLH]QDMGXM VL V]F]H
  Z\NRU]\VWDü MDNR RGQLHVLHQLH SRGF]DV QDSUDZ\ OXE
  ]DFKRZDQLH WHM NDUW\

3URGXFHQW 6X]KRX *RWK (OHFWULF $SSOLDQFH &R /WG

'\VWU\EXWRU Z 3ROVFH 0RGR VS] R R