Module 1

Dim Smmin, dia, rpm

Dim TC(50, 6), t$(50, 3), G(12, 4), r(8, 15), r\_$(10), AF(11), A(3, 5, 25), b$(5, 25)

Dim FIL$(20), RNNUM(20), UUR(10), MASSA(4)

Dim Qi(30), Qu(30), Qa(30), mt(30), in\_(20), MATSCH$(20), sm(20)

Type AFM

TP As String \* 4

dwaai As Single

dzuig As Single

pers1 As Single

pers2 As Single

uitwb As Single

inwb As Single

INWD As Single

keeld As Single

TOPH As Single

INTRH As Single

AANSCHP As Single

End Type

Type aasv

soort As String \* 4

constante As Single

constan As Single

cons As Single

con As Single

stnd As String \* 1

toer As Single

dia As Single

End Type

Type STAN

DIAM As Single

End Type

Dim AASVAR As aasv

Dim AFMVAR As AFM

'==============================================================================================

Sub AANTALV\_DAT()

'==============================================================================================

Open "C:\Documents and Settings\jank\Mijn documenten\Kennemer ventilatoren\aantalv.dat" \_

For Random As #1 Len = Len(AASVAR)

MNBRD = LOF(1) \ Len(AASVAR)

For rn = 1 To MNBRD

Get #1, rn, AASVAR

t$(rn, 1) = AASVAR.soort

TC(rn, 1) = AASVAR.constante

TC(rn, 2) = AASVAR.constan

TC(rn, 3) = AASVAR.cons

TC(rn, 4) = AASVAR.con

t$(rn, 2) = AASVAR.stnd

TC(rn, 5) = AASVAR.toer

TC(rn, 6) = AASVAR.dia

Next

Close #1

For i = 1 To 50

For j = 1 To 3

Worksheets("aantalv.dat").Cells(i, j).Value = t$(i, j)

Next j

Next i

For i = 1 To 50

For j = 1 To 6

Worksheets("aantalv.dat").Cells(i, j + 3).Value = TC(i, j)

Next j

Next i

End Sub

'==============================================================================================

Sub AFM\_DAT()

'==============================================================================================

Open "C:\Documents and Settings\jank\Mijn documenten\Kennemer ventilatoren\afm.dat" \_

For Random As #1 Len = Len(AFMVAR)

RC = LOF(1) \ Len(AFMVAR)

For rn = 1 To RC

Get #1, rn, AFMVAR

Worksheets("afm.dat").Cells(rn, 1).Value = AFMVAR.TP

Worksheets("afm.dat").Cells(rn, 2).Value = AFMVAR.dwaai

Worksheets("afm.dat").Cells(rn, 3).Value = AFMVAR.dzuig

Worksheets("afm.dat").Cells(rn, 4).Value = AFMVAR.pers1

Worksheets("afm.dat").Cells(rn, 5).Value = AFMVAR.pers2

Worksheets("afm.dat").Cells(rn, 6).Value = AFMVAR.uitwb

Worksheets("afm.dat").Cells(rn, 7).Value = AFMVAR.inwb

Worksheets("afm.dat").Cells(rn, 8).Value = AFMVAR.INWD

Worksheets("afm.dat").Cells(rn, 9).Value = AFMVAR.keeld

Worksheets("afm.dat").Cells(rn, 10).Value = AFMVAR.TOPH

Worksheets("afm.dat").Cells(rn, 11).Value = AFMVAR.INTRH

Worksheets("afm.dat").Cells(rn, 12).Value = AFMVAR.AANSCHP

Next rn

Close #1

End Sub

'==============================================================================================

Sub TXXX\_1()

'==============================================================================================

Dim STANVAR As STAN

' Types T12A.1, T16B.1, T17B.1, T20B.1, T21E.1, T27.1, T28.1, T35B.1

myType = "T35B.1"

myString = "C:\Documents and Settings\jank\Mijn documenten\Kennemer ventilatoren\" & myType

Open myString For Random As #1 Len = Len(STANVAR)

NMBR = LOF(1) \ Len(STANVAR)

For rn = 1 To NMBR

Get #1, rn, STANVAR

Worksheets(myType).Cells(rn, 1).Value = STANVAR.DIAM

Next rn

Close #1

End Sub

'==============================================================================================

Sub TXXX1()

'==============================================================================================

Dim H0(15)

myType = "T31E1"

myString = "C:\Documents and Settings\jank\Mijn documenten\Kennemer ventilatoren\" & myType

Open myString For Input As #1

For i = 1 To 15

Input #1, H0(i)

Worksheets(myType).Cells(i, 1).Value = H0(i)

Next i

Close #1

End Sub

'==============================================================================================

Sub XXXX()

'==============================================================================================

Dim ac(2, 16)

myFile = "3000"

myString = "C:\Documents and Settings\jank\Mijn documenten\Kennemer ventilatoren\" & myFile

Open myString For Input As #1

For i = 1 To 2

For j = 1 To 16

Input #1, ac(i, j)

Worksheets(myFile).Cells(i, j).Value = ac(i, j)

Next j

Next i

Close #1

End Sub

'==============================================================================================

Sub MAATGEG1()

'==============================================================================================

myFile = "maatgeg1"

myString = "C:\Documents and Settings\jank\Mijn documenten\Kennemer ventilatoren\" & myFile

rn = 0

Open myString For Input As #1

Do While Not EOF(1)

rn = rn + 1

Input #1, t\_$, mt(1), mt(2), mt(3), mt(4), mt(5), mt(6), mt(7), mt(8), mt(9), mt(10), \_

mt(11), mt(12), mt(13), mt(14)

Worksheets(myFile).Cells(rn, 1).Value = t\_$

Worksheets(myFile).Cells(rn, 2).Value = mt(1)

Worksheets(myFile).Cells(rn, 3).Value = mt(2)

Worksheets(myFile).Cells(rn, 4).Value = mt(3)

Worksheets(myFile).Cells(rn, 5).Value = mt(4)

Worksheets(myFile).Cells(rn, 6).Value = mt(5)

Worksheets(myFile).Cells(rn, 7).Value = mt(6)

Worksheets(myFile).Cells(rn, 8).Value = mt(7)

Worksheets(myFile).Cells(rn, 9).Value = mt(8)

Worksheets(myFile).Cells(rn, 10).Value = mt(9)

Worksheets(myFile).Cells(rn, 11).Value = mt(10)

Worksheets(myFile).Cells(rn, 12).Value = mt(11)

Worksheets(myFile).Cells(rn, 13).Value = mt(12)

Worksheets(myFile).Cells(rn, 14).Value = mt(13)

Worksheets(myFile).Cells(rn, 15).Value = mt(14)

Loop

Close #1

End Sub

'==============================================================================================

Sub MAATGEG2()

'==============================================================================================

myFile = "maatgeg2"

myString = "C:\Documents and Settings\jank\Mijn documenten\Kennemer ventilatoren\" & myFile

rn = 0

Open myString For Input As #1

Do While Not EOF(1)

rn = rn + 1

Input #1, t\_$, mt(15), mt(16), mt(17), mt(18), mt(19)

Worksheets(myFile).Cells(rn, 1).Value = t\_$

Worksheets(myFile).Cells(rn, 2).Value = mt(15)

Worksheets(myFile).Cells(rn, 3).Value = mt(16)

Worksheets(myFile).Cells(rn, 4).Value = mt(17)

Worksheets(myFile).Cells(rn, 5).Value = mt(18)

Worksheets(myFile).Cells(rn, 6).Value = mt(19)

Loop

Close #1

End Sub

'==============================================================================================

Sub FLENZEN()

'==============================================================================================

Dim dinfl(30)

myFile = "flenzen"

myString = "C:\Documents and Settings\jank\Mijn documenten\Kennemer ventilatoren\" & myFile

rn = 0

Open myString For Input As #1

For rn = 1 To 30

Input #1, dinfl(rn)

Worksheets(myFile).Cells(rn, 1).Value = dinfl(rn)

Next rn

Close #1

End Sub

'==============================================================================================

Sub DLKA()

'==============================================================================================

myFile = "dlka"

myString = "C:\Documents and Settings\jank\Mijn documenten\Kennemer ventilatoren\" & myFile

Open myString For Input As #1

Do While Not EOF(1)

rn = rn + 1

Input #1, n1, n2, deltaLKA

Worksheets(myFile).Cells(rn, 1).Value = n1

Worksheets(myFile).Cells(rn, 2).Value = n2

Worksheets(myFile).Cells(rn, 3).Value = deltaLKA

Loop

Close #1

End Sub

'==============================================================================================

Sub ISOLATIE()

'==============================================================================================

Dim iso(28, 10), sheet$(30), dikte(30), foil(30)

myFile = "isolatie"

myString = "C:\Documents and Settings\jank\Mijn documenten\Kennemer ventilatoren\" & myFile

Open myString For Input As #1

For i = 1 To 28

Input #1, dikte(i), sheet$(i), foil(i), iso(i, 1), iso(i, 2), iso(i, 3), iso(i, 4), \_

iso(i, 5), iso(i, 6), iso(i, 7), iso(i, 8)

Worksheets(myFile).Cells(i, 1).Value = dikte(i)

Worksheets(myFile).Cells(i, 2).Value = sheet$(i)

Worksheets(myFile).Cells(i, 3).Value = foil(i)

Worksheets(myFile).Cells(i, 4).Value = iso(i, 1)

Worksheets(myFile).Cells(i, 5).Value = iso(i, 2)

Worksheets(myFile).Cells(i, 6).Value = iso(i, 3)

Worksheets(myFile).Cells(i, 7).Value = iso(i, 4)

Worksheets(myFile).Cells(i, 8).Value = iso(i, 5)

Worksheets(myFile).Cells(i, 9).Value = iso(i, 6)

Worksheets(myFile).Cells(i, 10).Value = iso(i, 7)

Worksheets(myFile).Cells(i, 11).Value = iso(i, 8)

Next i

Close #1

End Sub

'==============================================================================================

Sub SELECTEER()

'==============================================================================================

' Koppeling aan werkblad

mySheet = "Selectie"

myRangeOpstelling = "G10"

myRangeUitvoering = "G11"

myRangeDichtheid = "G21"

myRangeTemperatuur = "G20"

myRangeMinimumTemperatuur = "I20"

myRangeStatischeDruk = "G29"

myRangeCapaciteit = "G16"

' Initialisatie

For rn = 1 To 50

t$(rn, 1) = Worksheets("aantalv.dat").Cells(rn, 1).Value

t$(rn, 2) = Worksheets("aantalv.dat").Cells(rn, 2).Value

TC(rn, 1) = Worksheets("aantalv.dat").Cells(rn, 4).Value

TC(rn, 2) = Worksheets("aantalv.dat").Cells(rn, 5).Value

TC(rn, 3) = Worksheets("aantalv.dat").Cells(rn, 6).Value

TC(rn, 4) = Worksheets("aantalv.dat").Cells(rn, 7).Value

TC(rn, 5) = Worksheets("aantalv.dat").Cells(rn, 8).Value

TC(rn, 6) = Worksheets("aantalv.dat").Cells(rn, 9).Value

Next rn

' Opstelling

Select Case Worksheets(mySheet).Range(myRangeOpstelling).Value

Case "zuigend"

in\_(1) = -1

Case "persend"

in\_(1) = 0

End Select

' Dichtheid gas [kg/Nm3]

in\_(2) = Worksheets(mySheet).Range(myRangeDichtheid).Value

' Temperatuur gas in werkpunt [degC]

in\_(3) = Worksheets(mySheet).Range(myRangeTemperatuur).Value

' Minimum temperatuur gas [degC]

Tmin = Worksheets(mySheet).Range(myRangeMinimumTemperatuur).Value

' Gevraagde statische druk [mmWk]

in\_(4) = Worksheets(mySheet).Range(myRangeStatischeDruk).Value \* 10.19

' Capaciteit [Am3/s]

in\_(5) = Worksheets(mySheet).Range(myRangeCapaciteit).Value

in\_(6) = in\_(2) \* (273 / (273 + in\_(3))) \* ((10200 + (in\_(1) \* in\_(4))) / 10200)

Smmin = in\_(2) \* (273 / (273 + Tmin)) \* ((10200 + (in\_(1) \* in\_(4))) / 10200)

in\_(7) = (1.2 / in\_(6)) \* in\_(4)

in\_(8) = in\_(5)

' Uitvoering

Select Case Worksheets(mySheet).Range(myRangeUitvoering).Value

Case "snaargedreven standaard"

in\_(9) = 1

in\_(10) = 0

STANDAARD\_SNAARGEDREVEN

Case "snaargedreven stof"

in\_(9) = 2

in\_(10) = 0

STANDAARD\_SNAARGEDREVEN

Case "snaargedreven snipper"

in\_(9) = 3

in\_(10) = 0

STANDAARD\_SNAARGEDREVEN

Case "niet standaard direct gedreven"

in\_(9) = 4

in\_(10) = 1

NIET\_STANDAARD\_DIRECT\_GEDREVEN

Case "niet standaard snaargedreven"

in\_(9) = 4

in\_(10) = 0

NIET\_STANDAARD\_SNAARGEDREVEN

Case "niet standaard vaste diameter"

in\_(9) = 4

in\_(10) = 0

NIET\_STANDAARD\_VASTE\_DIAMETER

End Select

End Sub

'==============================================================================================

Sub STANDAARD\_SNAARGEDREVEN()

'==============================================================================================

If in\_(9) = 1 Then STANSNST$ = "1"

If in\_(9) = 2 Then STANSNST$ = "2"

If in\_(9) = 3 Then STANSNST$ = "3"

AANTAL = 0

For rn = 1 To 50

If Left$(t$(rn, 2), 1) = STANSNST$ Then AANTAL = AANTAL + 1

If Left$(t$(rn, 2), 1) = STANSNST$ Then FIL$(AANTAL) = t$(rn, 1) + ".1"

If Left$(t$(rn, 2), 1) = STANSNST$ Then RNNUM(AANTAL) = rn

t$(rn, 3) = ""

Next rn

For i = 1 To AANTAL

rn = 1

Do While Worksheets(FIL$(i)).Cells(rn, 1).Value <> 0

D = Worksheets(FIL$(i)).Cells(rn, 1).Value

D\_$ = Str(D)

NUM = RNNUM(i)

W1 = (D / TC(NUM, 6)) ^ 4 \* (in\_(7) / in\_(8) ^ 2)

If W1 > TC(NUM, 3) And W1 < TC(NUM, 4) Then t$(NUM, 3) = t$(NUM, 3) & D\_$ & Chr(9)

rn = rn + 1

Loop

Next i

AANTAL = 0

myString = "TYPE" & Chr(9) & "MOGELIJKE WAAIERDIAMETERS" & Chr(13) & Chr(13)

For i = 1 To 50

If t$(i, 3) > "" Then

myString = myString & t$(i, 1) & Chr(9) & t$(i, 3) & Chr(13)

AANTAL = AANTAL + 1

End If

Next i

MsgBox myString

If AANTAL > 0 Then

TYPE\_$ = InputBox("Type ventilator")

dia = InputBox("Waaier diameter [mm]")

End If

For i = 1 To 50

b\_ = Len(t$(i, 1))

If TYPE\_$ = Left$(t$(i, 1), b\_) Then NUM = i

Next i

SNAAR TYPE\_$, NUM

rpm = r(1, 7)

MOTOR

AFMETING TYPE\_$

RESULTATEN TYPE\_$

GRAFIEK TYPE\_$

SPANNING TYPE\_$

GELUID TYPE\_$

End Sub

'==============================================================================================

Sub NIET\_STANDAARD\_DIRECT\_GEDREVEN()

'==============================================================================================

Dim T1$(50), T2$(50), T3$(50), T4$(50)

For rn = 1 To 50

W1 = (TC(rn, 5) / 750) ^ 4 \* (in\_(7) ^ 3 / in\_(8) ^ 2)

W2 = (TC(rn, 5) / 1000) ^ 4 \* (in\_(7) ^ 3 / in\_(8) ^ 2)

W3 = (TC(rn, 5) / 1500) ^ 4 \* (in\_(7) ^ 3 / in\_(8) ^ 2)

W4 = (TC(rn, 5) / 3000) ^ 4 \* (in\_(7) ^ 3 / in\_(8) ^ 2)

If W1 > TC(rn, 1) And W1 < TC(rn, 2) Then T1$(rn) = Chr(9) & "750" Else T1$(rn) = ""

If W2 > TC(rn, 1) And W2 < TC(rn, 2) Then T2$(rn) = Chr(9) & "1000" Else T2$(rn) = ""

If W3 > TC(rn, 1) And W3 < TC(rn, 2) Then T3$(rn) = Chr(9) & "1500" Else T3$(rn) = ""

If W4 > TC(rn, 1) And W4 < TC(rn, 2) Then T4$(rn) = Chr(9) & "3000" Else T4$(rn) = ""

t$(rn, 3) = T1$(rn) & T2$(rn) & T3$(rn) & T4$(rn)

Next rn

AANTAL = 0

myString = "TYPE" & Chr(9) & "MOGELIJKE TOERENTALLEN" & Chr(13) & Chr(13)

For i = 1 To 50

If t$(i, 3) > "" Then

myString = myString & t$(i, 1) & t$(i, 3) & Chr(13)

AANTAL = AANTAL + 1

End If

Next i

MsgBox myString

If AANTAL > 0 Then

TYPE\_$ = InputBox("Type ventilator")

rpm = InputBox("Toerental [rpm]")

rpm = CDbl(rpm)

End If

For i = 1 To 50

L = Len(TYPE\_$)

If TYPE\_$ = Left$(t$(i, 1), L) Then NUM = i

Next i

DIRECT TYPE\_$, NUM

MOTOR

rpm = r(4, 3)

DIRECT TYPE\_$, NUM

AFMETING TYPE\_$

dia = r(1, 8)

rpm = r(1, 7)

RESULTATEN TYPE\_$

GRAFIEK TYPE\_$

SPANNING TYPE\_$

GELUID TYPE\_$

End Sub

'==============================================================================================

Sub NIET\_STANDAARD\_SNAARGEDREVEN()

'==============================================================================================

TYPE\_$ = InputBox("Type ventilator")

For i = 1 To 50

L = Len(TYPE\_$)

If TYPE\_$ = Left$(t$(i, 1), L) Then NUM = i

Next i

SNAARVAR TYPE\_$, NUM

MOTOR

AFMETING TYPE\_$

dia = r(1, 8)

rpm = r(1, 7)

RESULTATEN TYPE\_$

GRAFIEK TYPE\_$

SPANNING TYPE\_$

GELUID TYPE\_$

End Sub

'==============================================================================================

Sub NIET\_STANDAARD\_VASTE\_DIAMETER()

'==============================================================================================

dia = InputBox("Waaierdiameter [mm]")

AANTAL = 0

For rn = 1 To 50

If TC(rn, 6) > 0 Then W1 = (dia / TC(rn, 6)) ^ 4 \* (in\_(7) / in\_(8) ^ 2) Else W1 = 0

If W1 > TC(rn, 3) And W1 < TC(rn, 4) Then t$(rn, 3) = t$(rn, 1)

If t$(rn, 3) > "" Then AANTAL = 1

Next rn

myString = "TYPE" & Chr(13) & Chr(13)

For i = 1 To 50

If t$(i, 3) > "" Then

myString = myString & t$(i, 1) & Chr(13)

AANTAL = AANTAL + 1

End If

Next i

MsgBox myString

TYPE\_$ = InputBox("Type ventilator")

For i = 1 To 50

L = Len(TYPE\_$)

If TYPE\_$ = Left$(t$(i, 1), L) Then NUM = i

Next i

SNAAR TYPE\_$, NUM

MOTOR

AFMETING TYPE\_$

rpm = r(1, 7)

RESULTATEN TYPE\_$

GRAFIEK TYPE\_$

SPANNING TYPE\_$

GELUID TYPE\_$

End Sub

'==============================================================================================

Sub DIRECT(TYPE\_$, NUM)

'==============================================================================================

Dim X(15)

Dim G(14, 4)

Z% = 0

Do

Z% = Z% + 1

G(Z%, 1) = Worksheets(TYPE\_$).Cells(Z%, 1)

G(Z%, 2) = Worksheets(TYPE\_$).Cells(Z%, 2)

G(Z%, 3) = Worksheets(TYPE\_$).Cells(Z%, 3)

G(Z%, 4) = Worksheets(TYPE\_$).Cells(Z%, 4)

Loop While G(Z%, 2) > 1

For i = 2 To 12

X(i) = G(i, 2) ^ 3 / G(i, 1) ^ 2

Next i

myString = "Vollast toerental in [rpm] bij " & Format(r(1, 4), "0.0") & " [kW]"

If rpm = 0 Then rpm = InputBox(myString): rpm = CDbl(rpm)

X1 = (TC(NUM, 5) / rpm) ^ 4 \* (in\_(7) ^ 3 / in\_(8) ^ 2)

For N = 3 To 10

L = N + 1

If X1 <= X(N) And X1 >= X(L) Then Exit For

Next N

X0 = Log(X1)

X1 = Log(X(N))

X2 = Log(X(N + 1))

DX0 = X0 - X1

DX1 = X2 - X1

DC = G(N + 1, 1) - G(N, 1)

DC1 = DX1 / DC

DC0 = DX0 / DC1

r(1, 2) = G(N, 1) + DC0

F1 = DC0 / DC

For K = 2 To 4

Z = K + 1

F2 = G(L, K) - G(N, K)

r(1, Z) = F2 \* F1 + G(N, K)

Next K

r(1, 1) = ((in\_(8) ^ 2 \* r(1, 3)) / (r(1, 2) ^ 2 \* in\_(7)))

r(1, 1) = r(1, 1) ^ 0.25

r(1, 7) = rpm

r(1, 2) = r(1, 2) \* (r(1, 7) / TC(NUM, 5) \* (r(1, 1) ^ 3))

r(1, 3) = r(1, 3) \* ((r(1, 7) / TC(NUM, 5)) ^ 2) \* (r(1, 1) ^ 2) \* (in\_(6) / 1.2)

r(1, 4) = r(1, 4) \* ((r(1, 7) / TC(NUM, 5)) ^ 3) \* (r(1, 1) ^ 5) \* (in\_(6) / 1.2) \* 0.7355

End Sub

'==============================================================================================

Sub MOTOR()

'==============================================================================================

If in\_(10) = 1 Then

If r(1, 7) < 800 Then M$ = "M750"

If r(1, 7) > 800 And r(1, 7) < 1300 Then M$ = "M1000"

If r(1, 7) > 1300 And r(1, 7) < 2700 Then M$ = "M1500"

If r(1, 7) > 2700 Then M$ = "M3000"

End If

If r(1, 7) > 2300 Then M$ = "M3000" Else M$ = "M1500"

CODE% = 0

Do

CODE% = CODE% + 1

r(4, 1) = Worksheets(M$).Cells(CODE%, 1)

Loop Until r(4, 1) > (1.15 \* r(1, 4)) Or r(4, 1) < 0.1

r(4, 2) = Worksheets(M$).Cells(CODE%, 2)

r(4, 3) = Worksheets(M$).Cells(CODE%, 3)

r(4, 4) = Worksheets(M$).Cells(CODE%, 4)

r(4, 5) = Worksheets(M$).Cells(CODE%, 5)

End Sub

'==============================================================================================

Sub AFMETING(TYPE\_$)

'==============================================================================================

rn = 0

Do

rn = rn + 1

If TYPE\_$ = Worksheets("afm.dat").Cells(rn, 1).Value Then

AF(1) = Worksheets("afm.dat").Cells(rn, 2).Value

AF(2) = Worksheets("afm.dat").Cells(rn, 3).Value

AF(3) = Worksheets("afm.dat").Cells(rn, 4).Value

AF(4) = Worksheets("afm.dat").Cells(rn, 5).Value

AF(5) = Worksheets("afm.dat").Cells(rn, 6).Value

AF(6) = Worksheets("afm.dat").Cells(rn, 7).Value

AF(7) = Worksheets("afm.dat").Cells(rn, 8).Value

AF(8) = Worksheets("afm.dat").Cells(rn, 9).Value

AF(9) = Worksheets("afm.dat").Cells(rn, 10).Value

AF(10) = Worksheets("afm.dat").Cells(rn, 11).Value

AF(11) = Worksheets("afm.dat").Cells(rn, 12).Value

Exit Do

End If

Loop While rn < 50

' Afmetingen maal M-factor

For i = 1 To 8

AF(i) = AF(i) \* r(1, 1)

Next i

' Berekening dynamische druk

A1 = (AF(3) / 1000) \* (AF(4) / 1000)

r(1, 6) = (r(1, 2) / A1) ^ 2 \* in\_(6) / 19.62

' Afmeting waaier

r(1, 8) = AF(1)

End Sub

'==============================================================================================

Sub SNAAR(TYPE\_$, NUM)

'==============================================================================================

Dim X(15)

Dim G(14, 4)

Z% = 0

Do

Z% = Z% + 1

G(Z%, 1) = Worksheets(TYPE\_$).Cells(Z%, 1)

G(Z%, 2) = Worksheets(TYPE\_$).Cells(Z%, 2)

G(Z%, 3) = Worksheets(TYPE\_$).Cells(Z%, 3)

G(Z%, 4) = Worksheets(TYPE\_$).Cells(Z%, 4)

Loop While G(Z%, 2) > 1

For i = 2 To 12

X(i) = G(i, 2) / G(i, 1) ^ 2

Next i

X1 = (dia / TC(NUM, 6)) ^ 4 \* (in\_(7) / in\_(8) ^ 2)

For N = 3 To 10

L = N + 1

If X1 <= X(N) And X1 >= X(L) Then Exit For

Next N

X0 = Log(X1)

X1 = Log(X(N))

X2 = Log(X(N + 1))

DX0 = X0 - X1

DX1 = X2 - X1

DC = G(N + 1, 1) - G(N, 1)

DC1 = DX1 / DC

DC0 = DX0 / DC1

r(1, 2) = G(N, 1) + DC0

F1 = DC0 / DC

For K = 2 To 4

Z = K + 1

F2 = G(L, K) - G(N, K)

r(1, Z) = F2 \* F1 + G(N, K)

Next K

r(1, 1) = ((in\_(8) ^ 2 \* r(1, 3)) / (r(1, 2) ^ 2 \* in\_(7)))

r(1, 1) = r(1, 1) ^ 0.25

r(1, 7) = (in\_(8) \* TC(NUM, 5)) / (r(1, 2) \* r(1, 1) ^ 3)

r(1, 2) = r(1, 2) \* (r(1, 7) / TC(NUM, 5)) \* (r(1, 1) ^ 3)

r(1, 3) = r(1, 3) \* ((r(1, 7) / TC(NUM, 5)) ^ 2) \* (r(1, 1) ^ 2) \* (in\_(6) / 1.2)

r(1, 4) = r(1, 4) \* ((r(1, 7) / TC(NUM, 5)) ^ 3) \* (r(1, 1) ^ 5) \* (in\_(6) / 1.2) \* 0.7355

End Sub

'==============================================================================================

Sub RESULTATEN(TYPE\_$)

'==============================================================================================

Dim myResultatenArray As Variant

mySheet = "Selectie"

DRK = Smmin / in\_(6)

myResultatenArray = Array( \_

"G09", TYPE\_$, \_

"G12", dia, \_

"G13", rpm, \_

"G14", in\_(8) \* in\_(6) / in\_(2), \_

"G15", in\_(8) \* in\_(6) / in\_(2) \* 3600, \_

"G17", in\_(8) \* 3600, \_

"G18", in\_(8) \* in\_(6), \_

"G19", in\_(8) \* in\_(6) \* 3600, \_

"G22", in\_(6), \_

"G23", in\_(4), \_

"G24", r(1, 6), \_

"G25", in\_(4) + r(1, 6), \_

"G26", in\_(4) / 0.1019, \_

"G27", r(1, 6) / 0.1019, \_

"G28", (in\_(4) + r(1, 6)) / 0.1019, \_

"G30", r(1, 6) / 10.19, \_

"G31", (in\_(4) + r(1, 6)) / 10.19, \_

"G32", r(1, 4), \_

"G33", r(1, 5), \_

"G34", r(4, 1), \_

"G35", r(4, 3))

Worksheets(mySheet).Unprotect

For i = LBound(myResultatenArray) To UBound(myResultatenArray) Step 2

Worksheets(mySheet).Range(myResultatenArray(i)).Value = myResultatenArray(i + 1)

Next i

myResultatenArray = Array( \_

"I18", in\_(8) \* in\_(6) \* DRK, \_

"I19", in\_(8) \* in\_(6) \* 3600 \* DRK, \_

"I21", in\_(2), \_

"I22", Smmin, \_

"I23", in\_(4) \* DRK, \_

"I24", r(1, 6) \* DRK, \_

"I25", (in\_(4) + r(1, 6)) \* DRK, \_

"I26", in\_(4) / 0.1019 \* DRK, \_

"I27", r(1, 6) / 0.1019 \* DRK, \_

"I28", (in\_(4) + r(1, 6)) / 0.1019 \* DRK, \_

"I29", in\_(4) / 10.19 \* DRK, \_

"I30", r(1, 6) / 10.19 \* DRK, \_

"I31", (in\_(4) + r(1, 6)) / 10.19 \* DRK, \_

"I32", r(1, 4) \* DRK)

For i = LBound(myResultatenArray) To UBound(myResultatenArray) Step 2

Worksheets(mySheet).Range(myResultatenArray(i)).Value = myResultatenArray(i + 1)

Next i

Worksheets(mySheet).Protect

End Sub

'==============================================================================================

Sub SPANNING(TYPE\_$)

'==============================================================================================

Dim myResultatenArray As Variant

Dim myPlaatdikteArray As Variant

Dim dinfl(35)

mySheet = "Waaierberekening"

t\_ = 0

Do

t\_ = t\_ + 1

ty$ = Worksheets("maatgeg1").Cells(t\_, 1).Value

mt(1) = Worksheets("maatgeg1").Cells(t\_, 2).Value

mt(2) = Worksheets("maatgeg1").Cells(t\_, 3).Value

mt(3) = Worksheets("maatgeg1").Cells(t\_, 4).Value

mt(4) = Worksheets("maatgeg1").Cells(t\_, 5).Value

mt(5) = Worksheets("maatgeg1").Cells(t\_, 6).Value

mt(6) = Worksheets("maatgeg1").Cells(t\_, 7).Value

mt(7) = Worksheets("maatgeg1").Cells(t\_, 8).Value

mt(8) = Worksheets("maatgeg1").Cells(t\_, 9).Value

mt(9) = Worksheets("maatgeg1").Cells(t\_, 10).Value

mt(10) = Worksheets("maatgeg1").Cells(t\_, 11).Value

mt(11) = Worksheets("maatgeg1").Cells(t\_, 12).Value

mt(12) = Worksheets("maatgeg1").Cells(t\_, 13).Value

mt(13) = Worksheets("maatgeg1").Cells(t\_, 14).Value

mt(14) = Worksheets("maatgeg1").Cells(t\_, 15).Value

Loop While ty$ <> TYPE\_$

ty$ = ""

t\_ = 0

Do

t\_ = t\_ + 1

ty$ = Worksheets("maatgeg2").Cells(t\_, 1).Value

mt(15) = Worksheets("maatgeg2").Cells(t\_, 2).Value

mt(16) = Worksheets("maatgeg2").Cells(t\_, 3).Value

mt(17) = Worksheets("maatgeg2").Cells(t\_, 4).Value

mt(18) = Worksheets("maatgeg2").Cells(t\_, 5).Value

mt(19) = Worksheets("maatgeg2").Cells(t\_, 6).Value

Loop While ty$ <> TYPE\_$

For t\_ = 1 To 30

dinfl(t\_) = Worksheets("flenzen").Cells(t\_, 1).Value

Next t\_

mg = dia / mt(4)

For t\_ = 1 To 12

mt(t\_) = mg \* mt(t\_)

Next t\_

For t\_ = 1 To 30

If dinfl(t\_) > mt(1) Then Exit For

Next t\_

zuigm = mt(1)

If mt(1) - dinfl(t\_ - 1) > (dinfl(t\_) - dinfl(t\_ - 1)) \* 0.25 Then

mt(1) = dinfl(t\_)

Else

mt(1) = dinfl(t\_ - 1)

End If

If mt(1) = 0 Then mt(1) = zuigm

sm\_ = InputBox("Dichtheid materiaal [kg/m3]")

Pi = 3.141593

kf = 0.87

O = rpm / 60

r1 = mt(3) / 2000

r2 = dia / 2000

br1 = mt(13) \* Pi / 180

br2 = mt(14) \* Pi / 180

sol = mt(6) / 1000

sil = mt(5) / 1000

S = 0.001

For i = 2 To 25

s1 = S \* i

Qu(i) = sol ^ 2 \* sm\_ \* r2 \* (2 \* Pi \* O) ^ 2 \* Cos(br2) / (2 \* s1)

Qu(i) = Qu(i) / 1000000

Qi(i) = sil ^ 2 \* sm\_ \* r1 \* (2 \* Pi \* O) ^ 2 \* Cos(br1) / (2 \* s1)

Qi(i) = Qi(i) / 1000000

Next i

myPlaatdikteArray = Array(2, 3, 4, 5, 6, 8, 10, 12, 15, 18, 20)

myStr = "SPANNINGEN" & Chr(13)

myStr = myStr & Chr(13)

myStr = myStr & "Plaatdikte" & Chr(9) & Chr(9) & "[mm]"

For Each i In myPlaatdikteArray

myStr = myStr & Chr(9) & i

Next i

myStr = myStr & Chr(13)

myStr = myStr & "Schoep inwendig" & Chr(9) & "[N/mm2]"

For Each i In myPlaatdikteArray

myStr = myStr & Chr(9) & Format(Qi(i), "0")

Next i

myStr = myStr & Chr(13)

myStr = myStr & "Schoep uitwendig" & Chr(9) & "[N/mm2]"

For Each i In myPlaatdikteArray

myStr = myStr & Chr(9) & Format(Qu(i), "0")

Next i

myStr = myStr & Chr(13)

MsgBox myStr

S = InputBox("Schoepdikte [mm]")

s1 = S / 1000

r\_\_ = (r2 ^ 2 - r1 ^ 2) / (2 \* (r2 \* Cos(br2) - r1 \* Cos(br1)))

v = 2 \* Atn((r2 \* Cos(br2) - r1 \* Cos(br1)) / (r2 \* Sin(br2) + r1 \* Sin(br1)))

L = r\_\_ \* v

m1 = mt(15) \* sm\_ \* L \* s1 \* sil

m2 = mt(15) \* sm\_ \* L \* s1 \* (sil - sol) / 2

Mschoep = m1 - m2

Sa = 0.001

For i = 2 To 25

ach = Sa \* i

ma = r2 ^ 2 \* Pi \* ach \* sm\_

sma = (Mschoep + ma) \* sm\_ / ma

Qa(i) = kf \* sma \* (2 \* r2 \* Pi \* O) ^ 2

Qa(i) = Qa(i) / 1000000

Next i

Qv = kf \* sm\_ \* (2 \* r2 \* Pi \* O) ^ 2

Qv = Qv / 1000000

myStr = myStr & Chr(13)

myStr = myStr & "Voorplaat" & Chr(9) & Chr(9) & "[N/mm2]"

For Each i In myPlaatdikteArray

myStr = myStr & Chr(9) & Format(Qv, "0")

Next i

MsgBox myStr

Sv = InputBox("Dikte voorplaat [mm]")

myPlaatdikteArray = Array(3, 4, 5, 6, 8, 10, 12, 15, 18, 20, 25)

myStr = "SPANNINGEN" & Chr(13)

myStr = myStr & Chr(13)

myStr = myStr & "Plaatdikte" & Chr(9) & Chr(9) & "[mm]"

For Each i In myPlaatdikteArray

myStr = myStr & Chr(9) & i

Next i

myStr = myStr & Chr(13)

myStr = myStr & "Achterplaat" & Chr(9) & "[N/mm2]"

For Each i In myPlaatdikteArray

myStr = myStr & Chr(9) & Format(Qa(i), "0")

Next i

MsgBox myStr

Sa = InputBox("Dikte achterplaat [mm]")

ach = Sa / 1000

voo = Sv / 1000

If sil <> sol Then b3 = Atn((sil - sol) / (r2 - r1)) \* Pi / 180 Else b3 = 0

mv = (r2 ^ 2 - r1 ^ 2) \* Pi \* voo \* sm\_ / Cos(b3)

ma = r2 ^ 2 \* Pi \* ach \* sm\_

mwaaier = mv + ma + Mschoep

j = mg ^ 4 \* (Sa \* mt(16) + Sv \* mt(17) + S \* mt(18) + mt(19)) / 4 \* 1.05 \* sm\_ / 7820

If j = 0 Then j = ""

myResultatenArray = Array( \_

"H09", TYPE\_$, \_

"H10", dia, \_

"H11", rpm, \_

"H12", sm\_, \_

"H13", mt(3), \_

"H14", mt(13), \_

"H15", mt(14), \_

"H16", mt(15), \_

"H17", mt(5), \_

"H18", mt(6), \_

"H19", Sa, \_

"H20", S, \_

"H21", Sv, \_

"H22", ma, \_

"H23", Mschoep, \_

"H24", mv, \_

"H25", mwaaier, \_

"H26", L \* 1000, \_

"H27", Qa(Sa), \_

"H28", Qi(S), \_

"H29", Qu(S), \_

"H30", Qv, "H31", zuigm, "H32", mt(1), "H33", mt(7), "J33", mt(8), "H34", j)

Worksheets(mySheet).Unprotect

For i = LBound(myResultatenArray) To UBound(myResultatenArray) Step 2

Worksheets(mySheet).Range(myResultatenArray(i)).Value = myResultatenArray(i + 1)

Next i

myPlaatdikteArray = Array(2, 3, 4, 5, 6, 8, 10, 12, 15, 18, 20)

j = 6

For Each i In myPlaatdikteArray

j = j + 1

Worksheets(mySheet).Cells(38, j).Value = Qi(i)

Worksheets(mySheet).Cells(39, j).Value = Qu(i)

Worksheets(mySheet).Cells(40, j).Value = Qv

Next i

myPlaatdikteArray = Array(3, 4, 5, 6, 8, 10, 12, 15, 18, 20, 25)

j = 6

For Each i In myPlaatdikteArray

j = j + 1

Worksheets(mySheet).Cells(43, j).Value = Qa(i)

Next i

f = Pi / 4 \* mt(2) ^ 2

myResultatenArray = Array( \_

"D46", mt(10), \_

"D47", mt(12), \_

"D48", mt(11), \_

"H46", mt(9), \_

"H47", mt(9) + mt(7) / 2, \_

"H48", mt(2), \_

"D51", mt(12) + 50, \_

"D52", mt(10) + 50, \_

"H51", mt(9) + mt(7) / 2 + 100, \_

"H52", mt(11) + 50, \_

"D55", f / (mt(1) + 200), \_

"D56", 1.8 \* mt(1), \_

"H55", f / (mt(1) + 200) + 0.24008 \* 1.8 \* mt(1), \_

"H56", mt(1) + 200)

For i = LBound(myResultatenArray) To UBound(myResultatenArray) Step 2

Worksheets(mySheet).Range(myResultatenArray(i)).Value = myResultatenArray(i + 1)

Next i

Worksheets(mySheet).Protect

End Sub

'==============================================================================================

Sub SNAARVAR(TYPE\_$, NUM)

'==============================================================================================

Dim G(14, 4)

Z% = 0

Do

Z% = Z% + 1

G(Z%, 1) = Worksheets(TYPE\_$).Cells(Z%, 1)

G(Z%, 2) = Worksheets(TYPE\_$).Cells(Z%, 2)

G(Z%, 3) = Worksheets(TYPE\_$).Cells(Z%, 3)

G(Z%, 4) = Worksheets(TYPE\_$).Cells(Z%, 4)

Loop While G(Z%, 2) > 1

For K = 1 To 4

L = K + 1

r(1, L) = G(7, K)

Next K

Q1 = (in\_(8) ^ 2 \* r(1, 3))

Q2 = (r(1, 2) ^ 2 \* in\_(7))

r(1, 1) = ((in\_(8) ^ 2 \* r(1, 3)) / (r(1, 2) ^ 2 \* in\_(7)))

r(1, 1) = r(1, 1) ^ 0.25

r(1, 7) = (in\_(8) \* TC(NUM, 5)) / (r(1, 2) \* r(1, 1) ^ 3)

r(1, 2) = r(1, 2) \* (r(1, 7) / TC(NUM, 5)) \* (r(1, 1) ^ 3)

r(1, 3) = r(1, 3) \* ((r(1, 7) / TC(NUM, 5)) ^ 2) \* (r(1, 1) ^ 2) \* (in\_(6) / 1.2)

r(1, 4) = r(1, 4) \* ((r(1, 7) / TC(NUM, 5)) ^ 3) \* (r(1, 1) ^ 5) \* (in\_(6) / 1.2) \* 0.7355

End Sub

'==============================================================================================

Sub GELUID(TYPE\_$)

'==============================================================================================

Dim iso(28, 10), sheet$(30), dikte(30), foil(30)

Dim Lp(10), Lw(10), Lpiso(10), Lwiso(10), Lwr(10), Lwrel(10), Lwi(10)

Dim myResultatenArray As Variant

mySheet = "Geluidsanalyse"

wand = InputBox("Wanddikte ventilatorhuis [mm]")

fMA = 1

fBA = 1 + 0.5 \* (82 / (r(1, 5)) - 1)

If fBA > 1.2 Then fBA = 1.2

Lmotor = 3.6 \* Val(r\_$(1))

Las = 3 \* mt(8)

If in\_(9) = 4 And in\_(10) = 1 Then

Lstoel = Lmotor + Las

Else

If Las > Lmotor + 75 Then

Lstoel = Las

Else

Lstoel = Lmotor + 75

End If

End If

Lvent = (Lstoel + mt(8) + 100) / 1000

Bvent = (75 + mt(12) + mt(9) + mt(7) / 2) / 1000

Hvent = (100 + mt(10) + mt(11)) / 1000

pt = (r(1, 6) + r(1, 3))

nq = rpm \* Sqr(in\_(8)) / (pt / in\_(6)) ^ 0.75

Lws = (55 + 0.034 \* nq) \* fBA

rn = 0

Do

rn = rn + 1

n1 = Worksheets("dlka").Cells(rn, 1)

Loop While n1 < rpm

deltaLKA = Worksheets("dlka").Cells(rn, 3)

Lwi\_ = Lws + 10 \* Log(in\_(8)) / Log(10#) + 20 \* Log(pt) / Log(10#)

Rv = 0.75 \* (7.5 + 18 / Log(10#) \* Log(wand \* 7.85)) \* fMA

Sa = (Lvent + 2) / 2

Sb = (Bvent + 2) / 2

Sc = Hvent + 1

S = 4 \* (Sa \* Sb + Sa \* Sc + Sb \* Sc)

Ls = 10 \* Log(S) / Log(10#)

Sv = 2 \* Lvent \* Hvent + 2 \* Bvent \* Hvent + Lvent \* Bvent

Lv = 10 \* Log(Sv) / Log(10#)

LwA = Lwi\_ - Rv + Lv

LwAa = LwA - deltaLKA

L = LwA - Ls

For i = 1 To 8

Lwrel(i) = -5 - 5 \* (1 / Log(10#) \* Log(31.25 \* 2 ^ i \* 60 / rpm / mt(15)) + \_

0.4) ^ 2 - 0.00034 \* rpm

Lwi(i) = Lwi\_ + Lwrel(i)

Lw(i) = Lwi(i) - Rv + Lv

Lp(i) = Lw(i) - Ls

Lpiso(i) = Lp(i) - iso(isnr, i)

Lwiso(i) = Lw(i) - iso(isnr, i)

Next i

LpA = 10 \* Log(10 ^ ((Lp(1) - 26) / 10) + 10 ^ ((Lp(2) - 16) / 10) + 10 ^ ((Lp(3) - 8) / \_

10) + 10 ^ ((Lp(4) - 3) / 10) + 10 ^ (Lp(5) / 10) + 10 ^ ((Lp(6) + 1) / 10) + \_

10 ^ ((Lp(7) + 1) / 10) + 10 ^ ((Lp(8) - 1) / 10)) / Log(10#)

LwA = 10 \* Log(10 ^ ((Lw(1) - 26) / 10) + 10 ^ ((Lw(2) - 16) / 10) + 10 ^ ((Lw(3) - 8) / \_

10) + 10 ^ ((Lw(4) - 3) / 10) + 10 ^ (Lw(5) / 10) + 10 ^ ((Lw(6) + 1) / 10) + \_

10 ^ ((Lw(7) + 1) / 10) + 10 ^ ((Lw(8) - 1) / 10)) / Log(10#)

LwiA = 10 \* Log(10 ^ ((Lwi(1) - 26) / 10) + 10 ^ ((Lwi(2) - 16) / 10) + \_

10 ^ ((Lwi(3) - 8) / 10) + 10 ^ ((Lwi(4) - 3) / 10) + 10 ^ (Lwi(5) / 10) + \_

10 ^ ((Lwi(6) + 1) / 10) + 10 ^ ((Lwi(7) + 1) / 10) + 10 ^ ((Lwi(8) - 1) / 10)) / \_

Log(10#)

myStr1 = "GELUIDSNIVEAU" & Chr(13) & Chr(13)

myStr1 = myStr1 & "Frequentie" & Chr(9) & "[Hz]" & Chr(9) & "63" & Chr(9) & "125" & \_

Chr(9) & "250" & Chr(9) & "500" & Chr(9) & "1000" & Chr(9) & "2000" & Chr(9) & \_

"4000" & Chr(9) & "8000" & Chr(9) & "Niveau" & Chr(13)

myStr1 = myStr1 & "Lwi" & Chr(9) & Chr(9) & "[dB]"

For i = 1 To 8

myStr1 = myStr1 & Chr(9) & Format(Lwi(i), "0")

Next i

myStr1 = myStr1 & Chr(9) & Format(LwiA, "0") & Chr(9) & "[dB(A)]" & Chr(13)

myStr1 = myStr1 & "Lw" & Chr(9) & Chr(9) & "[dB]"

For i = 1 To 8

myStr1 = myStr1 & Chr(9) & Format(Lw(i), "0")

Next i

myStr1 = myStr1 & Chr(9) & Format(LwA, "0") & Chr(9) & "[dB(A)]" & Chr(13)

myStr1 = myStr1 & "Lp" & Chr(9) & Chr(9) & "[dB]"

For i = 1 To 8

myStr1 = myStr1 & Chr(9) & Format(Lp(i), "0")

Next i

myStr1 = myStr1 & Chr(9) & Format(LpA, "0") & Chr(9) & "[dB(A)]" & Chr(13)

MsgBox myStr1

isol = InputBox("Huisisolatie toepassen (J/N)")

If isol = "J" Or isol = "j" Then

For i = 1 To 28

dikte(i) = Worksheets("isolatie").Cells(i, 1).Value

sheet$(i) = Worksheets("isolatie").Cells(i, 2).Value

foil(i) = Worksheets("isolatie").Cells(i, 3).Value

iso(i, 1) = Worksheets("isolatie").Cells(i, 4).Value

iso(i, 2) = Worksheets("isolatie").Cells(i, 5).Value

iso(i, 3) = Worksheets("isolatie").Cells(i, 6).Value

iso(i, 4) = Worksheets("isolatie").Cells(i, 7).Value

iso(i, 5) = Worksheets("isolatie").Cells(i, 8).Value

iso(i, 6) = Worksheets("isolatie").Cells(i, 9).Value

iso(i, 7) = Worksheets("isolatie").Cells(i, 10).Value

iso(i, 8) = Worksheets("isolatie").Cells(i, 11).Value

Next i

100 myStr = "HUISISOLATIE" & Chr(13) & Chr(13)

For i = 1 To 14

myStr = myStr & i & Chr(9) & "=" & Chr(9) & dikte(i) & "mm Rockwool + " & \_

sheet$(i) & Chr(9) & Chr(13)

Next i

For i = 15 To 28

myStr = myStr & i & Chr(9) & "=" & Chr(9) & dikte(i) & "mm Rockwool + " & \_

foil(i) & " mm folie + " & sheet$(i) & Chr(9) & Chr(13)

Next i

MsgBox myStr

isnr = InputBox("Nummer huisisolatie (1 t/m 28)")

myStr2 = "Reductie" & Chr(9) & Chr(9) & "[dB]"

For i = 1 To 8

myStr2 = myStr2 & Chr(9) & Format(iso(isnr, i), "-0")

Next i

myStr2 = myStr2 & Chr(13)

myStr2 = myStr2 & "Lw, red" & Chr(9) & Chr(9) & "[dB]"

For i = 1 To 8

Lwiso(i) = Lw(i) - iso(isnr, i)

myStr2 = myStr2 & Chr(9) & Format(Lwiso(i), "0")

Next i

LwisoA = 10 \* Log(10 ^ ((Lwiso(1) - 26) / 10) + 10 ^ ((Lwiso(2) - 16) / 10) + \_

10 ^ ((Lwiso(3) - 8) / 10) + 10 ^ ((Lwiso(4) - 3) / 10) + 10 ^ (Lwiso(5) / 10) + \_

10 ^ ((Lwiso(6) + 1) / 10) + 10 ^ ((Lwiso(7) + 1) / 10) + \_

10 ^ ((Lwiso(8) - 1) / 10)) / Log(10#)

myStr2 = myStr2 & Chr(9) & Format(LwisoA, "0") & Chr(9) & "[dB(A)]" & Chr(13)

myStr2 = myStr2 & "Lp, red" & Chr(9) & Chr(9) & "[dB]"

For i = 1 To 8

Lpiso(i) = Lp(i) - iso(isnr, i)

myStr2 = myStr2 & Chr(9) & Format(Lpiso(i), "0")

Next i

LpisoA = 10 \* Log(10 ^ ((Lpiso(1) - 26) / 10) + 10 ^ ((Lpiso(2) - 16) / 10) + \_

10 ^ ((Lpiso(3) - 8) / 10) + 10 ^ ((Lpiso(4) - 3) / 10) + 10 ^ (Lpiso(5) / 10) + \_

10 ^ ((Lpiso(6) + 1) / 10) + 10 ^ ((Lpiso(7) + 1) / 10) + \_

10 ^ ((Lpiso(8) - 1) / 10)) / Log(10#)

myStr2 = myStr2 & Chr(9) & Format(LpisoA, "0") & Chr(9) & "[dB(A)]" & Chr(13)

If foil(isnr) <> 0 Then

myStr2 = myStr2 & Chr(13) & "Isolatie bestaande uit " & dikte(isnr) & \_

" [mm] Rockwool, " & foil(isnr) & " [mm] folie en 1,5 [mm] " & sheet$(isnr)

Else

myStr2 = myStr2 & Chr(13) & "Isolatie bestaande uit " & dikte(isnr) & \_

" [mm] Rockwool en 1,5 [mm] " & sheet$(isnr)

End If

MsgBox myStr1 & myStr2

isola = InputBox("Huisisolatie toepassen (J/N)")

If isola = "N" Or isola = "n" Then GoTo 100

End If

myResultatenArray = Array( \_

"H09", TYPE\_$, \_

"H10", rpm, \_

"H11", in\_(8), \_

"H12", pt, \_

"H13", Lvent \* 1000, \_

"J13", Bvent \* 1000, \_

"L13", Hvent \* 1000, \_

"H14", nq, \_

"H15", wand, \_

"H16", Lws, \_

"H17", deltaLKA, \_

"H18", Lwi\_, \_

"H19", Rv, \_

"H20", Sa, \_

"J20", Sb, \_

"L20", Sc, \_

"H21", Ls, \_

"H22", Sv, \_

"H23", Lv, \_

"J23", L, \_

"H24", LwA, \_

"J24", LwAa, \_

"H25", fBA)

Worksheets(mySheet).Unprotect

For i = LBound(myResultatenArray) To UBound(myResultatenArray) Step 2

Worksheets(mySheet).Range(myResultatenArray(i)).Value = myResultatenArray(i + 1)

Next i

For i = 1 To 8

Worksheets(mySheet).Cells(28, i + 6).Value = Lwrel(i)

Worksheets(mySheet).Cells(29, i + 6).Value = Lwi(i)

Worksheets(mySheet).Cells(30, i + 6).Value = Lw(i)

Worksheets(mySheet).Cells(31, i + 6).Value = Lp(i)

Worksheets(mySheet).Cells(32, i + 6).Value = -iso(isnr, i)

Worksheets(mySheet).Cells(33, i + 6).Value = Lwiso(i)

Worksheets(mySheet).Cells(34, i + 6).Value = Lpiso(i)

Next i

If isol = "J" Or isol = "j" Then

If foil(isnr) <> 0 Then

Worksheets(mySheet).Range("E39").Value = dikte(isnr) & " [mm] Rockwool, " & \_

foil(isnr) & " [mm] folie en 1,5 [mm] " & sheet$(isnr)

Else

Worksheets(mySheet).Range("E39").Value = dikte(isnr) & \_

" [mm] Rockwool en 1,5 [mm] " & sheet$(isnr)

End If

Else

Worksheets(mySheet).Range("E39").Value = ""

LwisoA = LwA

LpisoA = LpA

End If

myResultatenArray = Array( \_

"O29", LwiA, \_

"O30", LwA, \_

"O31", LpA, \_

"O33", LwisoA, \_

"O34", LpisoA)

For i = LBound(myResultatenArray) To UBound(myResultatenArray) Step 2

Worksheets(mySheet).Range(myResultatenArray(i)).Value = myResultatenArray(i + 1)

Next i

Worksheets(mySheet).Protect

End Sub

'==============================================================================================

Sub GRAFIEK(TYPE\_$)

'==============================================================================================

Dim G(6, 12), G1(6, 12), H0(15)

' Koppeling aan werkblad

mySheet = "Grafiek"

Z% = 0

ty$ = TYPE\_$

d2 = dia

n2 = rpm

L = Len(ty$)

Z% = 0

Do

Z% = Z% + 1

G(1, Z%) = Worksheets(TYPE\_$).Cells(Z%, 1).Value

G(2, Z%) = Worksheets(TYPE\_$).Cells(Z%, 2).Value

G(3, Z%) = Worksheets(TYPE\_$).Cells(Z%, 3).Value

G(4, Z%) = Worksheets(TYPE\_$).Cells(Z%, 4).Value

Loop While Z% < 12

T1$ = ty$ & "1"

For i = 1 To 15

H0(i) = Worksheets(T1$).Cells(i, 1).Value

Next i

CODE% = 0

Do

CODE% = CODE% + 1

C1$ = Worksheets("line").Cells(CODE%, 1).Value

d1 = Worksheets("line").Cells(CODE%, 2).Value

E1$ = Worksheets("line").Cells(CODE%, 3).Value

F1$ = Worksheets("line").Cells(CODE%, 4).Value

G1\_ = Worksheets("line").Cells(CODE%, 5).Value

H1$ = Worksheets("line").Cells(CODE%, 6).Value

F1 = Worksheets("line").Cells(CODE%, 7).Value

If Left$(C1$, L) = Left$(ty$, L) Then Exit Do

Loop While d1 > 1

Sa = in\_(6)

n1 = d1

d1 = H0(2)

M = d2 / H0(2)

' Berekening capaciteit

For i = 1 To 12

G1(1, i) = G(1, i) \* (n2 / n1) \* M ^ 3

Next i

' Berekening Pst

For i = 1 To 12

G1(2, i) = G(2, i) \* (n2 / n1) ^ 2 \* (Sa / 1.2) \* M ^ 2

Next i

' Berekening vermogen

For i = 1 To 12

G1(3, i) = G(3, i) \* (n2 / n1) ^ 3 \* (Sa / 1.2) \* M ^ 5 \* 0.7355

Next i

For i = 1 To 12

G1(4, i) = G(4, i)

Next i

' Berekening Pdyn

A\_ = (H0(3) / 1000) \* (H0(4) / 1000)

A1 = (H0(3) \* M / 1000) \* (H0(4) \* M / 1000)

For i = 1 To 12

v = G(1, i) / A\_

G(5, i) = v ^ 2 \* 1.2 / 20

V1 = G1(1, i) / A1

G1(5, i) = V1 ^ 2 \* Sa / 20

Next i

' Berekening Ptot

For i = 1 To 12

G(6, i) = G(2, i) + G(5, i)

G1(6, i) = G1(2, i) + G1(5, i)

Next i

' Resultaten naar werkblad

Worksheets(mySheet).Unprotect

For i = 1 To 12

Worksheets(mySheet).Cells(11 + i, 3).Value = G1(1, i)

Worksheets(mySheet).Cells(11 + i, 5).Value = G1(6, i) / 10.19

Worksheets(mySheet).Cells(11 + i, 7).Value = G1(5, i) / 10.19

Worksheets(mySheet).Cells(11 + i, 9).Value = G1(2, i) / 10.19

Worksheets(mySheet).Cells(11 + i, 11).Value = G1(3, i)

Worksheets(mySheet).Cells(11 + i, 13).Value = G1(4, i)

Next i

Worksheets(mySheet).Range("C26").Value = in\_(5)

Worksheets(mySheet).Range("E26").Value = (in\_(4) + r(1, 6)) / 10.19

Worksheets(mySheet).Range("G26").Value = r(1, 6) / 10.19

Worksheets(mySheet).Range("I26").Value = in\_(4) / 10.19

Worksheets(mySheet).Range("K26").Value = r(1, 4)

Worksheets(mySheet).Range("M26").Value = r(1, 5)

Worksheets(mySheet).Protect

End Sub