

DYNACOOOL HE VERSACOOOL

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The Company

Dynacool Division is wholly owned by OEM Dynamics Pty Limited an Australian Company founded in 1976 originating in the state of NSW. Dynacool Division are Lloyds Register quality system approved to ISO 9002 and are well recognised as the largest supplier of heat exchangers for oil cooling applications in Australia. Dynacool Division exports heat exchangers to over 20 countries.

The Computer Program

We thank you for opting to use our computer sizing program for Dynacool heat exchangers. We believe the program will assist you in making full use of our available product range and enhance your knowledge of heat transfer generally. The program which was entirely produced in Australia includes over 90 models and embodies our broad range of experience in the field of oil heat transfer.

Minimum Hardware and Software Requirements

- A PC computer 486/Pentium or higher level processor.
- Operating system Windows 95/98/NT.
- A VGA resolution (640x480) or higher video adapter.
- A mouse.
- 4 Mb of RAM.
- 10 Mb of spare disk space for installation of the program.
- Acrobat Reader

Guide To Using The Program

Click on the **Heat Exchanger** Icon in the DYNACOOOL box in your windows program. A page of written information with Dynacool Logo and Disclaimer will then appear. At the top of the screen will appear the 3 pull down menu headings *File, Edit & Help*. Under the 3 pull down menus appear 12 icons, each performs an identical function to one of the menu items. As you move your mouse arrow over the icon, a message appears on the bottom window bar showing what action clicking the icon performs. Frequent users of the program will find these icons will speed up the selection process.

Guide To Selecting A Heat Exchanger

To begin a cooler selection choose **New** from the **File** menu, here you select the type of cooler range you wish to select from. Next choose **Selection Data** from the **Edit** menu and enter the parameters for the selection. Click OK or press Enter and the selection information is displayed allowing you to evaluate the selection. If you wish to manually choose another cooler from the range choose from one of the **Model Selected by** categories in the **Edit** menu, the current selected model is highlighted and other models may be chosen and their performance based on the selection data can be evaluated. When you have reached your final selection choose **Customer Details** from the **Edit** menu and enter the information you wish. Use the **Print** options from the **File** menu to output your selection. Choose **Save** from the **File** menu to store your selection information for later retrieval.

Guide To Pull Down Menu's

File

Use the ***File*** menu to open existing or previous selections, Save new selections or save existing selections as new selections.

Open previously saved selections and modify and/or reprint them. Also, through ***File*** you can print the current selection on a printer or Exit from the HE program. Refer ***File*** Menu in ***Help*** Commands.

Edit

This is the main working menu for the program. Clicking on ***Edit*** will open the following sub-menus.

Selection Data

Customer Details

Model Selected by Performance

Model Selected by Pressure Drop

Model Selected by Cost Ranking

Model Selected by Noise Level

Selection Data

Clicking on ***Selection Data*** brings up a screen where you can enter or modify the data required to perform the cooler selection.

Customer Details

Clicking on ***Customer Details*** accesses boxes where you may type the customer details to be printed, displayed or filed in the selection.

Model Selected

Clicking on ***Model Selected*** brings up a list of models of the type chosen with the current selection highlighted. The list is in size order from smallest at the top to largest at the bottom, a larger or smaller capacity cooler may be chosen to suit special requirements (e.g. for greater HT margin).

Help

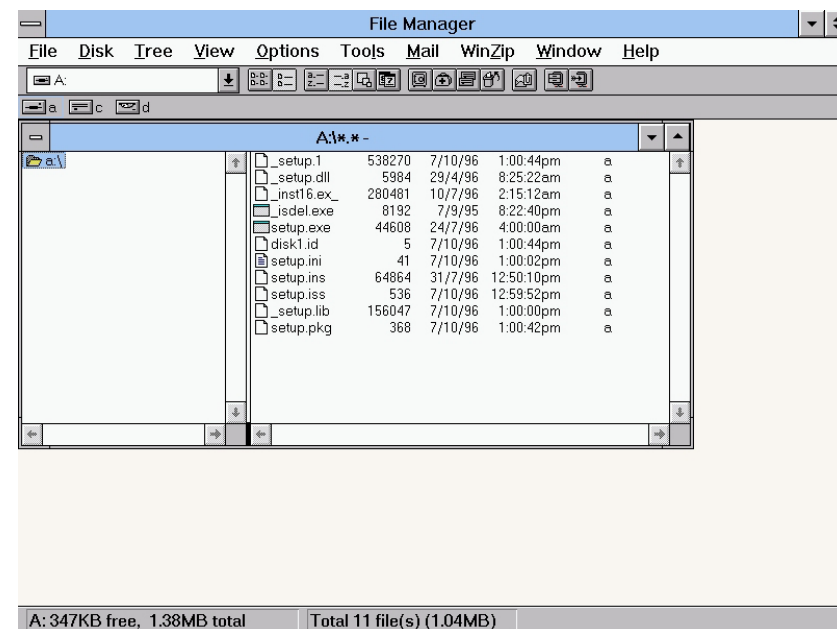
Help menu provides detailed assistance. All underlined texts either headings or in sentences (Green Colour on most coloured screens) are mouse buttons. Click on any underlined text and get more help information. Enter through ***Help*** to Contents to Commands. In Commands can be found Cooler Selection Menu . This menu opens detailed information on all input requirements. Where ever you see ***Data Input*** click the mouse on it and input detail requirements will be shown for the series of models you require. Also the sections headed Message Interpretation and Printing will be of assistance.

Installing The Program

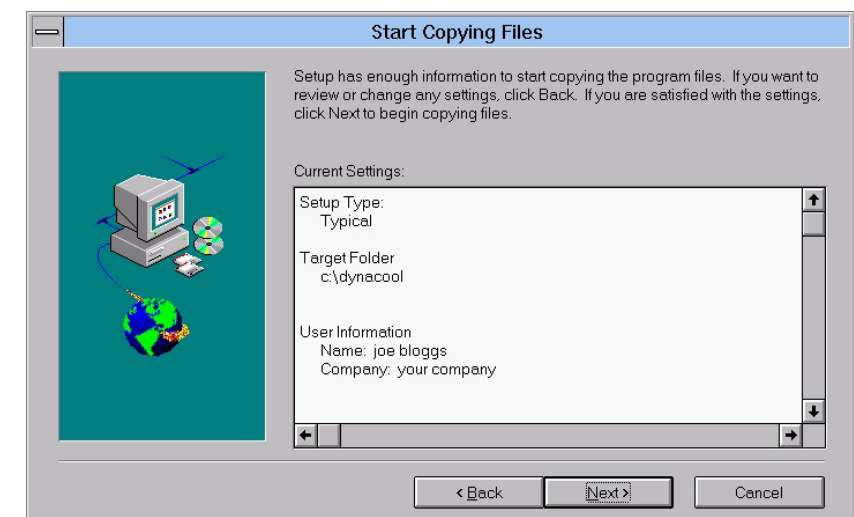
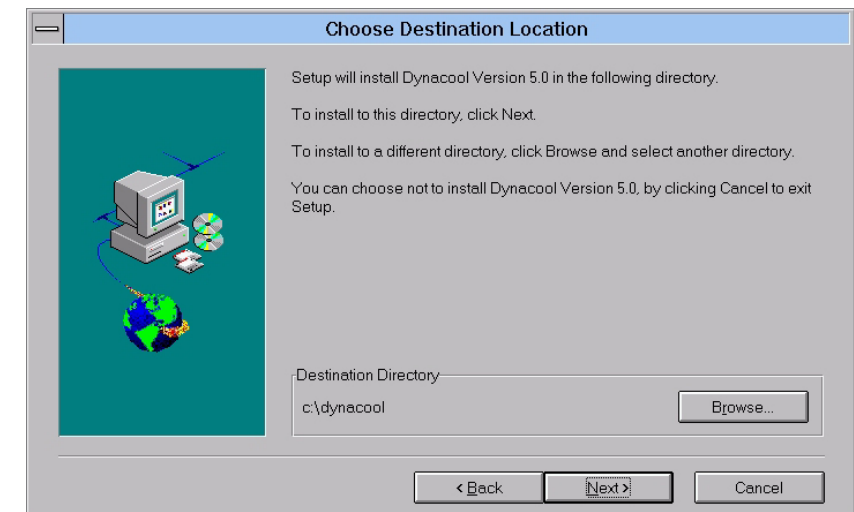
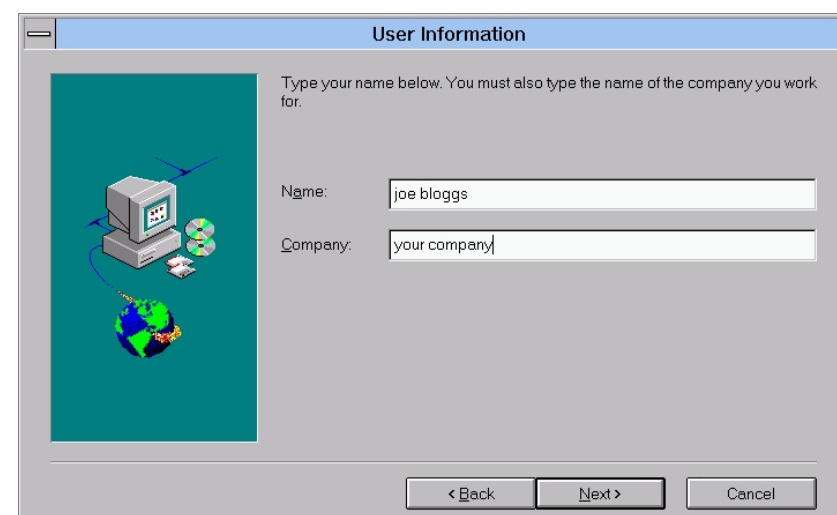
The Dynacool HE Selection program is installed from windows. Insert the diskette and open file manager, select file run and type a:/setup. The setup program will guide you through the installation process. Note that whilst the setup program lets you specify the HE installation location we do recommend that a c:/DYNACOOOL default directory be used.

The setup program should unarchive the program files and create a new program group and icon. The program group may be minimised after the installation is finished. Should you have any difficulties or questions, contact Dynacool..

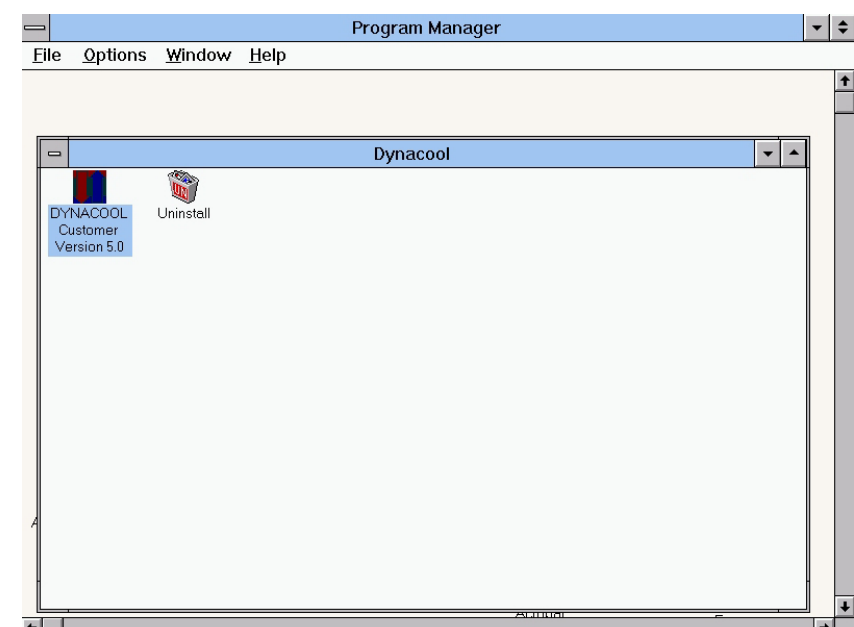
1. Double click on the file setup.exe



2. Follow the installation prompts



3. Double click the dynacool icon to start the program





STEP 4 - ALTERNATIVES

Customer Details

Date (d/m/yyyy): 8/12/1997

Company:

Address:

Attention:

Reference:

OK

Cancel

Select a Larger or Smaller Model

Model Name:

VC2WAG50
VC2WAC50
VC4YAG50
28-15 HLN 415 3P
VC3WAG50
28-15 VS 415 3P
28-15 VSP 415 3P
VC4YAC50
VC3WAC50
VC5YAC50
VC6YAC50
29-15 HLN 415 3P

Current Selected Model is Highlighted

OK

Select Larger or Smaller Pressure Drop

Model Name:

31-15 VLN 415 3P
31-15 HLN 415 3P
32-15 HLN 415 3P
32-15 VS 415 3P
32-15 HS 415 3P
32-15 HPLN 4153P
32-15 HSP 415 3P
VC5YAC50
VC6YAC50
28-15 VS 415 3P
28-15 VSP 415 3P

Current Selected Model is Highlighted

OK

Select Cheaper or Dearer Model

Model Name:

VC3WAC50
VC4YAC50
28-15 VS 415 3P
28-15 VSP 415 3P
VC5YAC50
VC6YAC50
29-15 HLN 415 3P
29-15 VSP 415 3P
31-15 HLN 415 3P
31-15 VLN 415 3P
31-15 HSP 415 3P

Current Selected Model is Highlighted

OK

Select Quieter or Noisier Model

Model Name:

32-15 HLN 415 3P
VC6YAC50
29-15 HLN 415 3P
29-15 VLN 415 3P
31-15 HLN 415 3P
31-15 VLN 415 3P
VC3WAC50
VC5YAC50
VC4YAC50
28-15 HLN 415 3P
28-15 VSP 415 3P
28-15 VS 415 3P
32-15 HPLN 4153P

Current Selected Model is Highlighted

OK

help.exe

File Edit Bookmark Help

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Windows Key Strokes

STEP 2 - DATA INPUT

Save As

File Name:

Directory:

Save File as Type:

Drive:

OK

Cancel

Input Air-Cooled Selection Parameters

Heat Load: 10

Heat Load Units

Oil Flow: 40

Flow Rate Units

Ambient Air Temperature: 25

Temperature Units

Desired Inlet Oil Temperature: 65

ISO Oil Viscosity Grade

Application/Motor Type

Product Range

OK

Cancel

Input Water-Cooled Selection Parameters

Heat Load to be Dissipated: 5

Heat Load Units

Oil Flow: 20

Flow Rate Units

Available Water Flow: 20

Flow Rate Units

Inlet Water Temperature: 25

Temperature Units

Desired Inlet Oil Temperature: 65

ISO Oil Viscosity Grade

Application Series

OK

Cancel

Input Mobile Selection Parameters

Heat Load to be Dissipated: 5

Heat Load Units

Oil Flow: 80

Flow Rate Units

Ambient Air Temperature: 40

Temperature Units

Desired Inlet Oil Temperature: 65

ISO Oil Viscosity Grade

Air Face Velocity: 5.55

Metres per Second

OK

Cancel

STEP 3 - SELECTION RESULTS

Open

File Name:

Directory:

Use Files of Type:

Drive:

OK

Cancel

STEP 1

Type of Heat Exchanger

HE Type

Air-Cooled

Water-Cooled

Mobile

OK

Cancel

DYNACOOOL Heat Exchangers - Document

File Edit Help

AIR-COOLED HEAT EXCHANGER SELECTION

Selection Parameters

Product Range

Application/Motor Type

Inlet oil temperature

Ambient air temp.

ETD

Heat load

Heat transfer

Oil flow

Oil type

Based on the information provided, we recommend the following heat exchanger:

Model

Part Number

Sales Leaflet

Weight

Description

Maximum Oil Flow

Heat Transfer Rating

Pressure Drop

Max. Ambient Temp.

%HT Margin

DYNACOOOL Heat Exchangers - Document

File Edit Help

WATER-COOLED HEAT EXCHANGER SELECTION

Selection Parameters

Application Series

Inlet oil temperature

Ambient air temp.

ETD

Heat load

Heat transfer

Oil flow

Available water flow

Oil type

Based on the information provided, we recommend the following heat exchanger:

Model

Part Number

Sales Leaflet

Weight

Description

Max. Oil Flow

Max. Oil Side Pressure

Max. Water Flow

Max. Water Side Pressure

Heat Transfer Rating

Pressure Drop

Available ETD

%HT Margin

DYNACOOOL Heat Exchangers - Document

File Edit Help

MOBILE HEAT EXCHANGER SELECTION

Selection Parameters

Inlet oil temperature

Ambient air temp.

ETD

Heat load

Heat transfer

Oil flow

Oil type

Average Face Velocity

Based on the information provided, we recommend the following heat exchanger:

Model

Part Number

Sales Leaflet

Weight

Description

Maximum Oil Flow

Heat Transfer Rating

Pressure Drop

Max. Ambient Temp.

%HT Margin

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